CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 26, 1905.

CONTENTS.

CIVIL SERVICE EXAMINATIONS.................. 25
CONSTRUCTION NEWS:
  Plans and Specifications on File.................. 25
  List of Contracts Pending.................. 25
  Railways.................. 26
  Street and Electric Railways.................. 26
  Light, Heat and Power Plants.................. 27
  Bridges.................. 28
  Buildings.................. 28
  Water Supply and Irrigation.................. 29
  Sewerage.................. 30
  Garbage Disposal and Street Cleaning.................. 31
  Streets and Roads.................. 31
  Manufacturing Plants.................. 31
  Miscellaneous Contracts.................. 32
  U. S. Posessions and Cuba.................. 32
  Mexico.................. 32
  Foreign Contracts and Export News.................. 33
  Contract Prices.................. 34
READERS' WANTS.................. 33
INDUSTRIAL NOTES.................. 34
TRADE PUBLICATIONS.................. 35
PROPOSALS.................. 36

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that board at Washington, D. C.

BUILDING SUPERINTENDENT.—U. S. Civil Service Commission will hold an examination Feb. 23 to secure eligibles to fill existing and future vacancies in the position of building superintendent, at a salary of $150 per month, under the Isthmian Canal Commission on the Isthmus of Panama. Applicants should have had good general experience in building superintendence, particularly in the construction of frame buildings.

CLERK, DRAFTSMAN, SURVEYOR.—U. S. Civil Service Commission will hold an examination on March 8-9 at various places throughout the country, to fill a vacancy in the position of clerk, draftsman and surveyor in the office of the Assistant to the Engineer of the Twelfth Light-House District at Honolulu, Hawaii, at $125 per month, and vacancies as they may occur in any branch of the service requiring similar qualifications.

ASSISTANT.—U. S. Civil Service Commission will hold an examination March 1-2 at various places throughout the country to fill a large number of positions in the grades of clerk and teacher in the Philippines. As a result of this examination it is desired to secure 140 college graduates, including 20 polytechnic and 20 agricultural, at a salary of $1,200 per annum, and 60 normal school graduates at a salary of $1,000 per annum. Many of the appointees will be required in the position of teacher, while some will be required in the various clerical and administrative offices in the islands. Excellent opportunities for promotion are afforded for well-qualified appointees. For positions requiring college graduates students who graduate in 1905 will be acceptable.

ASSISTANT TO CHIEF INSPECTOR.—In view of the small number of applicants for the examination which was to be held Jan. 18-19 to secure eligibles to fill a vacancy in the position of assistant to the chief inspector, at $1,500 per annum, in the Quartermaster's Department at Large, Schuylkill Arsenal, Philadelphia, Pa., and similar vacancies as they may occur, the U. S. Civil Service Commission has postponed the examination until Feb. 15-16, at which time it will be held at various places throughout the country.

Applicants for this examination must have a knowledge of textile fabrics, with an acquaintance of tests in determining dyes used in the various cloths, and must also have a fair understanding of china, glassware, tents, shoes, beds, flags, colors, hats, caps, and a general line of "miscellaneous supplies," such as chairs, buckskin gloves, fur gauntlets, etc.

PANAMA CANAL EMPLOYEES.—U. S. Civil Service Commission will hold an examination Feb. 13 to fill various vacancies in mechanical positions under the Isthmian Canal Commission on the Isthmus of Panama. No educational tests are required, and applicants will not be assembled at any given place for examination. They will be rated upon the information furnished in connection with their applications and upon the statements of their vouchers, in accordance with the following list of subjects and relative weights: Age, 20; physical condition, 20; experience, 60. The positions to be filled are as follows: Steam drill man, salary, $100 to $125 per month; foreman, first-class workman and helper in each of the following trades: blacksmith, boiler maker, carpenter, coppersmith, machinist, mason, molder, painter, pattern maker, pipefitter, plumber and tinsmith, at rate of pay of 50 cents to 60 cents per hour for foreman, 30 cents to 45 cents for first-class workmen, and 25 cents to 35 cents for helpers; bridge carpenter foreman, $100 and $125; first-class railroad bridge carpenter, $125; bridge carpenter, $100; railroad yardmaster, $130; switchman, $100; switchman's helper, $75; train conductor, $100; trainman, $75; switch engineman, $83.33, $100 and $115; steam and air drill foreman, $100 and $125; steam and air drill workman, $75 and $83.33.

◆

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Jan.				
*28	Electric fixtures	Cheyenne, Wyo	S	12-29
28	Latrines	Washington, D. C	S	1- 5
29	Switchboard	Washington, D. C	S	1- 5
Feb.				
*1	Sewers	Palatka, Fla	S. & B. S	1-12
4	Shears	Washington, D. C	S	1- 5
4	Latrine	Charleston, S. C	S	1-12
*4	Dredging, docks	Chicago, Ill	S	1-12
*6	Machinery	Washington, D. C	S	1-12
6	Bridges	Topeka, Kan	P	1-12
*8	Barracks	Fort Slocum, N. Y	P	1-26
11	Crane runways	New York	S	1-19
11	Electric elevator	Wash., D. C	S	1-19
*15	Barracks	Ft. Wright, Wash	P. & S	1-19
*16	Dredging,	Detroit, Mich	S	1-19
18	Telephone system	Wash., D. C	S	1-26
Mar.				
*17	Dredge	St. Louis, Mo	P. & S	1-19

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Feb. 2. Power boilers, Columbus, Ind.......Jan. 12
Feb. 15. Generators, Chicago, Ill.......Dec. 22
Feb. 15. Electric engines, West Point, N. Y.......Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 15. Gas plant, Temple, Tex.......Jan. 26
No date. Incandescent lighting, Laconia, N. H.......Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.

BRIDGES.

Jan. 31. Bridge, Des Moines, Ia.......Jan. 26
Feb. 2. Bridges, steel, Helena, Mont.......Jan. 26
Feb. 6. Bridge, Dayton, Nev.......Jan. 26
Feb. 6. Bridge, Santa Barbara, Cal.......Jan. 5
Feb. 6. Bridges, Topeka, Kan.......Jan. 12
Feb. 7. Bridges, steel, Muscatine, Ia.......Jan. 12
Feb. 7. Viaduct, Wabash, Ind.......Jan. 19
Feb. 7. Bridge, repair, Binghamton, N. Y.......Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 7. Bridge, Indianapolis, Ind.......Jan. 19
Feb. 7. Bridge, Stockton, Cal.......Jan. 19
Feb. 8. Bridge, Vincennes, Ind.......Jan. 19
Feb. 8. Bridges, Phoenix, Ariz.......Jan. 19
Feb. 13. Bridges, Sherbrooke, N. Dak.......Jan. 26
Feb. 14. Bridges, stone, Napa, Cal.......Dec. 29
Feb. 14. Bridge, India.......Jan. 26
Feb. 16. Bridge, Columbus, O.......June 26
Feb. 16. Bridge, truss, Charleston, W. Va.......Jan. 26
Advertised, Eng. News, Jan. 26.
Feb. 17. Bridge, superstructure, Port Clinton, O..Jan. 26
Feb. 18. Bridge repair, Cincinnati, O.......Jan. 26
Feb. 20. Bridge, York, Neb.......Jan. 26
Feb. 20. Bridge, steel, Culpeper, Va.......Jan. 19

BUILDINGS.

Jan. 26. Brick hospital, Mohave City, Ariz.......Jan. 12
Jan. 26. Police headquarters, New York, N. Y..Jan. 19
Jan. 28. Light fixtures, Cheyenne, Wyo.......Dec. 29
Advertised, Eng. News, Dec. 29 to Jan. 19.
Jan. 30. Post office, DeKalb, Ill.......Jan. 5
Advertised, Eng. News, Jan. 5.
Jan. 30. School, Webster, N. Dak.......Jan. 5
Jan. 31. Wiring, Walla Walla, Wash.......Jan. 5
Jan. 31. Post office, Albert Lea, Minn.......Dec. 8
Advertised, Eng. News, Dec. 8 and 15.
Feb. 1. Court house additions, Goshen, Ind.......Dec. 29
Feb. 1. Court house, Ogden, Utah.......Jan. 12
Feb. 1. Church, Zanesville, O.......Jan. 12
Feb. 1. Armory, Hartford, Conn.......Jan. 19
Feb. 1. Church, Fredericksburg, Tex.......Jan. 26
Feb. 2. Fixtures, Lakewood, O.......Jan. 19
Feb. 2. Hot water heating, Atlantic City, N. J...Jan. 12
Feb. 3. Electric wiring, Atlantic City, N. J.......Jan. 26
Feb. 4. Academy, Canadaigua, N. Y.......Jan. 12
Feb. 4. Electric elevator, Nashville, Tenn.......Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 6. Court house, Ocala, Fla.......Jan. 19
Feb. 6. Heating plant, Fort Mott, N. J.......Jan. 12
Advertised, Eng. News, Jan. 12 to Jan. 26.
Feb. 7. Post office, Nevada, Mo.......Dec. 29
Advertised, Eng. News, Dec. 29 and Jan. 5.
Feb. 7. Jail, Monticello, Miss.......Jan. 19
Feb. 7. Court house plans, Hillsboro, N. Dak....Jan. 26
Feb. 8. Barracks, Fort Slocum, N. Y.......Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 9. Barrack, Plattsburg, N. Y.......Jan. 19
Feb. 9. Coal shed, Tompkinsville, N. Y.......Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 9. Post office, Natchez, Miss.......Jan. 12
Feb. 10. Barracks, etc., Fort Howard, Md.......Jan. 19
Feb. 13. 21 buildings, San Francisco, Cal.......Jan. 26
Feb. 14. Steam heating, Batesville, Ark.......Jan. 12
Feb. 15. Steam heating, Chillicothe, O.......Jan. 12
Advertised, Eng. News, Jan. 12 to 19.
Feb. 15. Barracks, Ft. Wright, Wash.......Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 9.
Feb. 21. Post office, Westchester, Pa.......Jan. 5
Feb. 21. Plumbing, etc., Ft. Assinniboine, Mont..Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 23. Post office, Decatur, Ill.......Jan. 12
Feb. 27. Post office, Columbia, Mo.......Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 28. Post office, Louisiana, Mo.......Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Mar. 2. Post office, Adrian, Mich.......Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 6. Court house, Greenwood, Miss.......Jan. 26
Mar. 6. Post office, Battlecreek, Mich.......Jan. 26
Mar. 8. Post office, Muskegon, Mich.......Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 13. Post office, Hammond, Ind.......Jan. 26
Mar. 14. Post office, Moberly, Mo.......Jan. 26

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

WATER SUPPLY AND IRRIGATION.

Jan. 28. Boiler, tank, Denver, Colo.......Jan. 12
Jan. 28. Water system, Phoenix, Ariz.......Jan. 12
Feb. 1. Hydrants, New York, N. Y.......Jan. 12
Feb. 1. Water-works, Ione, Ore..N.......Jan. 26
Feb. 6. Pump, well, Jacksonville, Fla.......Jan. 19
Feb. 7. Water-works, Chrisman, Ill.......Jan. 19
Feb. 8. Water pipe, South Bend, Ind.......Jan. 19
Feb. 9. Water supply system, Fort Keogh, Mont..Jan. 19
Feb. 10. Water system, Bishop, Cal.......Dec. 15
Advertised, Eng. News, Dec. 8 to 29.
Feb. 22. Water-works, Schoharie, N. Y.......Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 1. Water-works, Chariton, Ia.......Jan. 26

SEWERAGE.

Jan. 26. Sewers, Coldwater, Mich.......Jan. 5
Advertised, Eng. News, Jan. 5 and 12.
Jan. 28. Sewers, Denver, Colo.......Jan. 26
Jan. 30. Sewer, St. Paul, Minn.......Jan. 26
Jan. 30. Sewage disposal system, Wash., D. C.......Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 31. Sewers, water pipe, etc., New Orleans, La. Nov. 24
Advertised, Eng. News, Nov. 24 to Jan. 19.
Jan. 31. Sewer, Davenport, Ia.......Jan. 26
Jan. 31. Sewerage, San Pedro, Cal.......Jan. 26
Jan. 31. Sewers, Davenport, Ia.......Jan. 26
Feb. 1. Sewers, Cresco, Ia.......Dec. 29
Feb. 1. Sewer system, Palatka, Fla.......Jan. 12
Advertised, Eng. News, Jan. 12 to 26.
Feb. 3. Sewers, St. Bernard, O.......Jan. 19
Feb. 7. Sewer, Los Angeles, Cal.......Jan. 5
Feb. 10. Sewer system, Bishop, Cal.......Dec. 15
Advertised, Eng. News, Dec. 8 to 22.
Feb. 14. Sewers, Bogota, N. J.......Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 15. Sewers, Havana, Ill.......Jan. 26
Feb. 15. Sewer system, Lunenburg, N. S.......Jan. 12
Feb. 15. Sewers, New Rochelle, N. Y.......Jan. 19
Advertised, Eng. News, Jan. 19 to 26.
Feb. 16. Sewers, St. Bernard, O.......Jan. 26
Feb. 23. Sewers, New Rochelle, N. Y.......Jan. 26

STREETS AND ROADS.

Jan. 26. Paving, etc., Cortland, N. Y.......Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 27. Walks, concrete, Fort Moultrie, S. C....Jan. 19
Jan. 27. Paving, St. Louis, Mo.......Jan. 19
Jan. 30. Grading, Los Angeles, Cal.......Jan. 19
Jan. 30. Macadamizing, Sacramento, Cal.......Jan. 26
Jan. 30. Paving, vitrified brick, Jacksonville, Fla..Jan. 26
Jan. 31. Road, Harrisburg, Pa.......Jan. 12
Feb. 1. Paving, Cincinnati, O.......Jan. 19
Feb. 1. Paving, etc., Brooklyn, N. Y.......Jan. 26
Feb. 1. Paving, brick, Cleveland, O.......Jan. 26
Feb. 2. Paving, Cincinnati, O.......Jan. 19
Feb. 4. Crushed stone and gravel, Bay City, Mich. Jan. 19
Feb. 4. Road, Sharon, Conn.......Jan. 26
Feb. 4. Planking, Seattle, Wash.......Jan. 26
Feb. 4. Grading, Lorain, O.......Jan. 26
Feb. 6. Sidewalks, cinder, Franklin Park, Ill....Jan. 19
Feb. 6. Paving, brick, Topeka, Kan.......Jan. 19
Feb. 7. Paving, brick, Webb City, Mo.......Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 7. Roads, Rensselaer, Ind.......Dec. 29
Feb. 7. Road, gravel, Franklin, Ind.......Jan. 26
Feb. 7. Sidewalks, cement, Broad Ripple, Ind..Jan. 26
Feb. 9. Walks, cement, Port Townsend, Wash....Jan. 26
Feb. 13. Paving, etc., Jacksonville, Fla.......Jan. 26
Feb. 15. Grading, Leesville, La.......Jan. 26
Feb. 14. Road, Napa, Cal.......Dec. 29
Feb. 15. Macadamizing, Madison, Wis.......Jan. 19
Feb. 18. Grading, Washington, D. C.......Jan. 19
Advertised, Eng. News, Jan. 19.
Mar. 1. Road, Grass Valley, Cal.......Jan. 26

MISCELLANEOUS CONTRACTS.

Jan. 26. Breakwater, Toronto, Ont.......Jan. 5
Jan. 26. Rails, fishplates, etc., South Africa.......Jan. 12
Jan. 26. Structural steel, Boston, Mass.......Jan. 19
Jan. 27. Wharf enlargement, Grondines, Que....Jan. 19
Jan. 28. Boiler plant, West Point, N. Y.......Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Jan. 30. Fire hose, Grand Rapids, Minn.......Jan. 26
Jan. 31. Fire hose, Wilmington, N. C.......Jan. 26
Jan. 31. Cement, granite, etc., Washington, D. C. Jan. 5
Jan. 31. Stone, Portland, Ore.......Jan. 5
Advertised, Eng. News, Jan. 5 to Feb. 2.
Feb. 1. Stripping, St. Clair, Pa.......Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Feb. 1. Piers, New York, N. Y.......Jan. 26
Feb. 2. Coal handling machinery, etc., Phila., Pa. Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 3. Driving piles, San Francisco, Cal.......Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Feb. 3. Dredging, Savannah, Ga.......Jan. 5
Advertised, Eng. News, Jan. 5 to Feb. 2.
Feb. 4. Shears, Washington, D. C.......Jan. 5
Feb. 4. Latrine, Charleston, S. C.......Jan. 12
Feb. 4. Dredging, docks, Chicago, Ill.......Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 4. Sea wall, wharf, etc., Hawaii.......Jan. 19
Feb. 4. Elevator, Washington, D. C.......Jan. 26
Feb. 4. Excavating, Washington, D. C.......Jan. 26
Advertised, Eng. News, Jan. 26.
Feb. 6. Sale of boilers, Boston, Mass.......Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 6. Street cleaning, Buffalo, N. Y.......Jan. 26

Feb. 6.	Machinery, Washington, D. C. Advertised, Eng. News, Jan. 12.	Jan. 12
Feb. 7.	Hydraulic dredge, Toronto, Ont.	Jan. 26
Feb. 7.	Wharf repairs, Fort Totten, N. Y. Advertised, Eng. News, Jan. 12 to Feb. 9.	Jan. 12
Feb. 7.	Machine tools, Washington, D. C. Advertised, Eng. News, Jan. 19 to Feb. 10.	Jan. 19
Feb. 8.	**Dam and bridges, Phoenix, Ariz.** **Advertised, Eng. News, Dec. 1 to Feb. 5.**	**Dec. 1**
Feb. 8.	Steam vessel, Seattle, Wash.	Jan. 26
Feb. 11.	Pier extension, dredging, etc., Ireland.	Jan. 19
Feb. 11.	Crane runways, Washington, D. C.	Jan. 19
Feb. 11.	Electric elevator, Washington, D. C.	Jan. 19
Feb. 11.	Canal, Columbus, O. Advertised, Eng. News, Jan. 19 to Feb. 10.	Jan. 19
Feb. 13.	Garbage collection, Atlantic City, N. J.	Jan. 26
Feb. 13.	Tubular boiler, Asbury Park, N. J. Advertised, Eng. News, Jan. 26 and Feb. 2.	Jan. 26
Feb. 14.	Wire, drills, etc., Washington, D. C.	Jan. 19
Feb. 14.	Machinery, Washington, D. C.	Jan. 19
Feb. 15.	**Dredging, Chicago, Ill.** **Advertised, Eng. News, Dec. 15.**	**Dec. 15**
Feb. 16.	Dredging, Detroit, Mich. Advertised, Eng. News, Jan. 19 to Feb. 16.	Jan. 19
Feb. 16.	Wharf work, San Francisco, Cal.	Jan. 26
Feb. 16.	Garbage collect'n & disposal, Chicago, Ill. Advertised, Eng. News, Jan. 26 to Feb. 17.	Jan. 26
Feb. 17.	Embankment, San Francisco, Cal. Advertised, Eng. News, Jan. 26 to Feb. 16.	Jan. 26
Feb. 18.	Telephone system, Washington, D. C.	Jan. 26
Feb. 18.	Dredging, New Orleans, La. Advertised, Eng. News, Jan. 26 to Feb. 16.	Jan. 26
Feb. 20.	Tramways, England	Jan. 26
Feb. 21.	Piles, Washington, D. C.	Jan. 26
Feb. 21.	Machine tools, Washington, D. C.	Jan. 26
Feb. 21.	Portland cement, Cincinnati, O. Advertised, Eng. News, Jan. 19 to Feb. 16.	Jan. 19
Feb. 23.	Window frames, Washington, D. C. Advertised, Eng. News, Jan. 26 to Feb. 23.	Jan. 26
Feb. 23.	Portland cement, etc, Newport, R. I. Advertised, Eng. News, Jan. 26 to Feb. 23.	Jan. 26
Feb. 25.	Lock, Cincinnati, O. Advertised, Eng. News, Jan. 26 to Feb. 23.	Jan. 26
Mar. 6.	Electric tramcars, etc, South Africa.	Jan. 12
Mar. 7.	Steel rails, fish plates, Australia.	Jan. 19
Mar. 15.	Dam, Los Angeles, Cal. Advertised, Eng. News, Jan. 12 to Feb. 23.	Jan. 12
Mar. 17.	Dredge, St. Louis, Mo. Advertised, Eng. News, Jan. 19 to Feb. 10.	Jan. 19
Mar. 31.	**Electric railway, China** **Advertised, Eng. News, Oct. 20 to Dec. 29.**	**Oct. 20**
Apr. 1.	**Dredging, Sweden**	**Nov. 24**
Apr. 10.	Channel improvement, Bermuda	Jan. 26
May 1.	**Light house, Egypt**	Dec. 22
No date.	Railway equipment, Portage Ry.	Jan. 26

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BELLINGHAM BAY & BRITISH COLUMBIA.—Company intends to extend the main line from Glacier, B. C., to Spokane, Wash., 275 miles. The company now operates 50 miles. J. J. Donovan, Bellingham, Wash., is Ch. Engr. and Gen. Supt.

BUCKHANNON & NORTHERN.—S. D. Brady, Ch Engr., Parkersburg, W. Va., informs us that no progress has been made toward construction since Jan. 1, 1904. A report from Grafton, W. Va., notes that Dennis & Valz, contractors, are preparing to resume work. This road is projected by the Wabash Railroad to connect the West Virginia Central with Pittsburg. John Q. Barlow, Chief Engineer of the Western Maryland Railroad at Cumberland, may be interested. J. W. Patterson, Pittsburg, is Ch. Engr. of Wabash-Pittsburg Terminal Co.

CAPE BRETON RY.—An extension will be built from St. Peters to Louisburg, 65 miles, if a subsidy is secured from the provincial government. Jay Downer, St. Peters, N. S., is Ch. Engr. G. E. Johnson, St. Peters, is Gen. Mgr. New York office of the company is at 22 Pine St.

CHARLOTTE, MONROE & COLUMBIA.—Ernest Williams, Pres., Lynchburg, Va., is authority for statement that this company will "ultimately build to Monroe, N. C.," probably from Jefferson, S. C.

CHATTANOOGA & MONTLAKE.—This road, it is stated, has been completed from Montlake, Tenn., on the Cincinnati Southern Ry. to coal mines at the mouth of North Chickamauga Creek, two miles, and is being extended up the creek two miles. It is proposed to build from a connection with the present line to Chattanooga, 13 miles. G. W. Nixon is Vice-Pres. and Gen. Mgr., at Chattanooga, Tenn.

CHICAGO, ROCK ISLAND & PACIFIC.—Surveys are reported being run for a line from Little Rock, Ark. via Hot Springs and Malvern, Ark., to New Orleans. W. L. Darling is Ch. Engr., at Chicago, Ill.

DELTA SOUTHERN.—This company, now building a line from Campbellsville, Miss., to Kuhns, via Percy and Elizabeth, will construct an extension from Campbellsville to Ittabena, via Belzoni. The Southern Ry. controls the Delta Southern. W. N. Wells, Washington, D. C., is Engr. Construction of Southern.

DOUGLAS, AUGUSTA & GULF.—The Wadley & Mt. Vernon Ry. Co. has changed its name to the Douglas, Augusta & Gulf. The line is now 57 miles long. The link between the Oconee & Ocmulgee Rivers will be built at once. An extension will be built from Nashville, Ga., the present southern terminal, to the Gulf, via Adel. G. D. Tysor, Wadley, Ga., is Gen. Mgr. T. J. James, Pres., Adrian, Ga.

DULUTH, ST. CLOUD, GLENCOE & MANKATO.—W. H. Fisher, of St. Paul, Minn., informs us that he has no connection with this road, as reported. Capt. A. H. Read, Glencoe, Minn., is Pres. Noted Jan. 12.

ERIE.—It is planned to expend about $2,000,000 in improving the Newark and Paterson branch of this railway. $10,000,000 was recently appropriated by board of directors for general improvements. W. L. Derr, 21 Cortlandt St., New York, is Acting Ch. Engr.

ERIE & PITTSBURG.—Capital stock has been increased from $2,000,000 to $4,500,000. Nearly $500,000 of this amount has been spent in double-tracking the road and the remainder is to be spent in improvements within the next 10 years. Charles H. Strong, Erie, Pa., is Pres.; John P. Smart, Secy. The Pennsylvania Ry. leases this road.

KENTUCKY MIDLAND.—M. M. Wheeler, Earles, Ky., Ch. Engr., writes us under date of Jan. 14 that preliminary surveys have been made via Earles route, and right of way practically secured for two routes proposed. The line will be about 26 miles long and will run from Madisonville to Central City via Earles or via Sacramento, the route as yet not having been decided upon. Capital for construction is being negotiated. The company intends to do its construction work. P. J. Jennings, 221 Home Insurance Bldg., Chicago, is Pres.

LIVE OAK & PERRY.—T. B. Dowling, Ch. Engr., Live Oak, Fla., states that this road has been completed from Live Oak to Day Station, Fla., 20 miles, and that it is being extended from Day Station to Perry, 20 miles. It is proposed to build an extension from Barrs Station to Aucilla River, 45 miles. Thomas Dowling, Live Oak, Fla., is Pres. Noted Dec. 1.

LOUISIANA & ARKANSAS.—William Buchannon, Pres., Texarkana, Ark., announces that a 40-mile extension will be built soon. Northern terminal is at Hope, Ark., and the southern terminal is Jena, La., from which place the line is to be extended to either Natchez, Miss., or Alexandria, La. At present the railway is 148 miles long. G. Knobel, Hope is Ch. Engr.

MOBILE & OHIO.—The Okolono branch will be extended from Vardaman to Derma, Miss, eight miles. T. L. Condron, St. Louis, Mo., is Engr.

NEW ORLEANS & MISSISSIPPI MIDLAND.—Preliminary surveys are to be made next month, we are informed. It is planned to build from New Orleans through the Pearl River valley into central Mississippi. T. Marshall Mills, of New Orleans, and S. H. Kirkland, of Forest, La., have been retained as attorneys. The company was organized in New Orleans in 1901, with $30,000 capital, to build to Chicago. It is stated that lines will be run to Jackson, Miss., and Memphis, Tenn. Col. James McNaught, 35 Nassau St., New York, is representative of the promoters.

NEW YORK, PENNSYLVANIA & SOUTHWESTERN.—A. K. Harvey, Ch. Engr., Binghamton, N. Y., has announced that as soon as the road between Binghamton and Williamsport has been completed he will make an effort to interest capitalists and form a company to build a railroad from Binghamton north through the Otselic valley, ending about 20 miles west of Utica. Noted on Nov. 24 under former title, Binghamton & Southwestern.

NORTHERN PACIFIC.—Official statement announces that 42 miles of track were laid during 1904 on branches and extensions of this system. E. J. Pearson, St. Paul, Minn., is Ch. Engr.

OKLAHOMA.—Frank J. Wycoff and Wm. Hodges, both of Stillwater, Okla., have submitted to the directors of the Commercial Club of Guthrie a proposition to build a railroad from Guthrie to Peru Junction, Kan., and from El Reno to Hobart and Childress, Tex. This line of railroad, they stated, would be built for the Missouri Pacific Ry. and sold to that company as soon as completed, making connections at Peru Junction with the Missouri Pacific and connecting Guthrie with Kansas City, a distance of 327 miles, which would be the shortest route to Kansas City from Guthrie. The promoters are Col. Forsythe, Edward Whitacker and other capitalists of St. Louis.

OVERTON COUNTY.—Bids are being received, we are informed, by Justice Cox, Jr., & Co., 1238 Land Title Bldg., Philadelphia, for grading, trestling and tracklaying. The line will run from Algood to Livingston, Tenn., 17 miles. Right of way has been obtained and route surveyed. Capital has been secured. This is to be the first section of an extensive project which will be known as the Tennessee Northeastern Ry. Noted on Jan. 12.

OWEN NORTHERN.—W. R. Gillis, Engr., Superior, Wis., states that contract for grading this road between Ladysmith and Withee, Wis., 50 miles, will be awarded at once. This is to be a portion of the proposed Lake Superior & Southeastern Ry. This latter company was chartered in Wisconsin in October with a capital stock of $25,000, to build from Superior to Marshfield, 100 miles, passing through the counties of Douglas, Washburn, Bayfield, Sawyer, Barron, Chippewa, Gates, Taylor, Clark, Marathon and Wood. Robert T. Merrill, George D. Van Dyke, William E. Carter, Carl Muskat and H. D. Van Dyke, all of Milwaukee, were the incorporators. Later reports state that contracts for 45-mile line from Ladysmith to Owen has been awarded to McINTOSH BROS. & EVANS, of Milwaukee. Sub-bids are being received.

PARAGOULD & MEMPHIS.—W. E. Winn, Roe Bldg., St. Louis, Mo., Ch. Engr., writes us that contracts for this road will be let probably in March as it is impracticable to do any work before then. All surveys are completed and all right of way secured, with terminals at Poplar Bluff and Marked Tree. The line will be 108 miles long, running from Poplar Bluff, Mo., to Rector, Ark., thence to Cardwell, Mo., to Manila, Ark., to Marked Tree and Mariana, Ark. French Quinn, Cardwell, is Gen. Mgr.

PENNSYLVANIA RY.—DRAKE & STRATTON, of Philadelphia, have contract for masonry, street bridge abutments, foundations and retaining walls for elevating company's tracks in Camden, N. J. HARRY W. YOUNG, of Pensauken (Merchantville post office), N. J., has contract for earthwork, grading, filling and excavations. Contract for steel bridges over streets, eight in number, will be let soon by W. H. Brown, Ch. Engr., at Philadelphia. The bridges average about 60 ft. in length. Federal St. bridge will be 250 ft. long.

PORTAGE RY.—Bids are being received by J. N. Teal, 314 Worcester Block, Portland, Ore., for general equipment for this railway. Particulars furnished upon application. Noted Jan. 5 and Jan. 12.

RALEIGH & WESTERN.—This company is reported to have graded 15 miles of its line west from Cumnock, N. C., to Harpers. Location surveys have been finished as far as Winston. The road runs at present between Colon and Randleman, 56 miles, with a branch line from Colon to Cumnock, eight miles. Samuel A. Henszey, 52 Broadway, New York, is Pres.; S. A. Henszey, Cumnock, N. C., is Gen. Mgr.

RIO GRANDE & SOUTHWESTERN.—An extension will be built from El Vado to Gallina, N. Mex., 15 miles. E. J. Yard, Denver, Colo., is Ch. Engr.

ST. LOUIS, CABOOL & LITTLE ROCK.—This railway, incorporated recently with $540,000 capital, will be 436 miles long. First division to be built will be 54 miles, from Cabool to Salem, Mo.; second division, Salem to St. Louis, 127 miles; third division, Cabool to Arkansas State line at Gainsville, Ozark County, 50 miles; fourth division, from State line to Little Rock, Ark., 130 miles; also branch from Springfield to Gainsville, 75 miles. E. L. Reel, Springfield, Mo., is Pres.; E. L. Sanks, Vice-Pres. and Gen. Mgr. The Reel-Sanks Construction Co. will have charge of construction and will announce date for receiving bids. Noted on Jan. 12.

SUSQUEHANNA & NEW YORK.—The road will be extended from Grays Run, Pa., to Newberry Junction. There will be built about 18 miles of new track. Eventually the company may build into Binghamton, N. Y. C. A. Deer, Williamsport, Pa., is Engr.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

NEW INCORPORATIONS AND CHARTERS.

CLEVELAND, YOUNGSTOWN & OHIO.—O.—This company has been incorporated in Ohio to build from Cleveland through Cuyahoga, Summit, Portage, Trumbull and Mahoning counties, southeast to Lowellville, 65 miles. Incorporators, Thomas E. Connell, F. B. Hamilton, James J. McNally, J. C. Hamilton and W. J. Thompson, of Youngstown, O. The road will be operated as a [illegible] line. Capital, $200,000. Preliminary surveys are under way.

COAL RIVER RAILROAD.—W. Va.—This company has been granted a charter to build a line from Point Pleasant, W. Va., southeast to St. Albans and Coal River, 42 miles, and thence southeast to Bramwell, 84 miles. The incorporators include: M. D. MacCorkle, W. M. Williamson and Samuel Stephenson, of Charleston, W. Va.

"HUDSON COMPANIES."—N. Y.—The "Hudson Companies" of New York City has been incorporated with capital of $21,000,000. The company is organized to build and operate tunnels, railroads and other enterprises in the states of New York and New Jersey. The directors are: F. W. Walz, T. J. Lackman, William H. Barnum, John A. Keppelman, Gilbert H. Montague, Herbert Scovill and George H. Tower, of New York City; Ross A. Mackey, of Brooklyn; William E. Kenney and L. E. Waring, of Plainfield, N. J., and A. W. Westervelt, of Englewood, N. J.

JAMESTOWN & YOSEMITE VALLEY.—Cal.—A railway will be built into the Yosemite Valley by this company. It has been incorporated with $1,000,000 capital stock. T. S. Bullock, of San Jose, is Pres.; S. D. Freshman, of Jamestown, Vice-Pres.; S. H. Smith, Gen. Freight and Passenger Agent; W. C. Potts, Supt., and C. N. Hamblin, Auditor of the Sierra Railroad Co., are directors. Company will build from Jamestown, Cal., to Mariposa, 40 miles. Branches will be built. E. F. Henderson, Oakland, Cal., is Resident Engr., of Santa Fe.

LIVE OAK & SUAWANEE SPRINGS.—Fla.—Charter has been granted to build a line a distance of six miles, to do a freight and passenger business. The capital stock is $20,000. The general offices are at Live Oak. The incorporators are: F. L. Rey, C. J. McGehery, C. D. Blackwell and B. W. Helvenston.

MARION COUNTY.—Ark.—Incorporated by J. C. Smith, Thomas Combs, Z. M. Horton, F. J. McLean, J. E. Williams, G. E. Dodge, J. S. Pyeatt, E. G. Merriman and Walter Dodge, to construct a road from Yellville, a distance of about 25 miles, in a northeast direction to the mouth of Buffalo River, where it will connect with the White River Road. It is the intention of the incorporators to begin work on the new road within the very near future. Capital stock, $250,000.

MEDFORD & CRATER LAKE.—Ore.—This company has been organized by A. A. Davis, B. F. Adkins, J. M. Keene, R. H. Whitehead, B. N. Harris and W. F. Entrop, of Medford, Ore. Capital stock, $500,000. A railway will be built from Medford to timber section.

MEMPHIS, INDIANOLA & GULF.—Tenn.—It is reported that this company has organized to build a line from Memphis to the Gulf. Construction will begin within 60 days. The first contract will be let in February for 25 miles, from Indianola to Dockery and the north. The preliminary surveys have been made from Memphis to the Gulf. The officers are: W. E. Ringold, Pres.; T. M. Andrews, Vice-Pres.; Robert Craig, Secy.; W. T. Pitts, Treas., and J. W. Buchanan, Gen. Attorney.

MONTREAL, QUEBEC & SOUTHERN.—Canada.—Notice is given that application will be made to the Dominion Parliament to incorporate this company, with power to build from St. Guillaume, on the Montreal & Atlantic, to the city of Sorel, in the county of Richelieu, and with power to acquire the South Shore Railway Co., the Montreal Longueuil Bridge Co., the Quebec Southern, and the East Richelieu Valley Railway.

NEUCES VALLEY, RIO GRANDE & MEXICO.—Tex.—Company has been chartered to build a railroad from Aransas Pass, Tex., through the counties of Bee, Live Oak, McMullin, LaSalle, Dimmit, Zavalla, Maverick, Kinney and Val Verde, to Del Rio, Texas, about 200 miles. Capital stock, $300,000. Principal office at Carrizo Springs, Tex. S. D. Chamberlain is Pres., W. A. Squires Vice-Pres., and J. B. Gibson, Secy.

NORTHWESTERN & GULF.—Ill.—The company, recently incorporated with $100,000 capital, will build from Centralia, Marion county, Ill., to a point on the Ohio River near Shawneetown, Ill., running through the counties of Marion, Jefferson, Franklin, Williamson, Saline and Gallatin. The incorporators and first board of directors are: Walter Mueller, O. H. Baker and W. Elden, of Chicago; J. M. Stehmn, of Pasadena, Cal., and J. D. Wagoner, of Fort Madison, Ia.

SPRINGFIELD & WESTERN.—Ill.—Incorporated to build a railroad from Springfield through the counties of Sangamon, Schuyler, Morgan, Mass, Brown, Pike and Adams, to Quincy, Ill. Capital stock, $100,000. Incorporators and first board of directors are: F. M. Mills, D. A. Watson, George A. Wood and R. H. McAnulty, of Springfield, Ill., and K. H. Seibel, of Chicago, Ill.

TORRANCE, ROSWELL & GULF.—N. Mex.—Incorporated at Albuquerque, N. Mex., by William H. Andrews, of that city, and Williard S. Hopewell, of Hillsboro, N. Mex. Company will build from Torrance to Roswell, 100 miles.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

LYNN, MASS.—The Nahant & Lynn Street Ry. Co. will soon be incorporated with $50,000 cap. stock by W. H. Southwick, of Nahant, and others. The road will be four miles long and of standard gage and is to run from Lynn to Nahant, Mass.

WORCESTER, MASS.—It is stated that next spring the Worcester Consolidated Street Ry. Co. expects to begin the construction of its new line to Leominster via Sterling. R. T. Laffin is Gen. Mgr., Boston.

ORANGE, N. J.—A franchise has been granted the Morris County Traction Co. the right to build a line in Millburn.

SUNBURY, PA.—It is announced that the work of constructing Shamokin-Sunbury extension, 20 miles in length, will be started early in the spring.

GETTYSBURG, PA.—The Chambersburg, Greencastle & Waynesboro Electric Ry. Co. will extend its line from Pen-Mar to Gettysburg. W. L. Ninich is Gen. Mgr., Waynesboro.

HARRISBURG, PA.—It is stated that the Harrisburg Traction Co. intends to double track Reily, Sixth and Maclay Sts. this coming spring. The company later will construct a line on Cameron St. from Forster St. to city limits. Work on Hummelstown line will be continued as soon as the weather will permit. F. B. Musser, Supt.

NELLSVILLE, PA.—It is reported that the Pittsbu McKeesport & Connellsville Electric Ry. Co. has all rights of way for extension of West Penn from Leckrone to Jacob's creek, 17½ miles. Con on will begin in the spring.

TSVILLE, PA.—A franchise has been granted to the ottsville & Tamaqua Co. by the Frackville Borough Council.

SHINGTON, D. C.—The District Commissioners have granted to the Washington, Alexandria & Mount Vernon Ry. Co. a permit for the construction of its new tracks in the vicinity of Municipal Building. W. T. McLean is Ch. Engr.

ASHINGTON, D. C.—The Senate has passed a bill to authorize the Anacostia, Surrattsville & Brandywine Electric Ry. Co. to extend its street railway into District of Columbia.

HEVILLE, N. C.—An electric railway will be constructed from this city into the mining districts of Madison and Yancey Counties, North Carolina, by George D. Miles Co., at a cost of $1,00,000. The road will be 50 miles in length. Geo. D. Miles is Pres.

LAKE PROVIDENCE, LA.—The Lake Providence & Couldsboro Ry. Co., capital $100,000, has been chartered, with J. L. Fischer, Pres.

NASHVILLE, TENN.—Local capitalists have purchased rights and franchises of Nashville & Columbia and Nashville & Gallatin interurban road, and it will be pushed to completion. The line will extend to Gallatin through Nashville to Mt. Pleasant, a distance of about 75 miles.

SHELBYVILLE, TENN.—It is announced that the proposed electric railway between this place and Fayetteville is a certainty. Work will begin as soon as weather permits.

SPRINGFIELD, O.—The Springfield Ry. Co. is planning to build two miles of new line next spring, being extensions of the West Pleasant St. line and Columbus Ave. line. J. H. Miller is Gen. Mgr.

SPRINGFIELD, O.—It is reported that surveys have been completed by the Springfield, Troy & Piqua Traction Co. for a branch line to St. Paris. Work will probably be started this summer. E. M. de Bruin is Ch. Engr.

HUNTINGTON, IND.—Huntington County Commissioners have granted a franchise to the Interstate Interurban Co., which proposes to build a line to connect Marion, Ind., with Lima, O.

PERU, IND.—The Central Electric Traction Ry. Co. has filed articles of incorporation. Capital stock, $25,000. Company proposes to build and operate an electric railway through Peru and Rochester and the counties of Miami, Fulton, Marshall and St. Joseph. Incorporators: J. O. Cole, Jerome Herff and H. F. Masters.

TERRE HAUTE, IND.—The building of the proposed interurban road to connect this city with Olney, Ill., is assured. Thirty miles of the road have been contracted for, and work is to begin as soon as materials and plans can be completed. The line will connect Merom, Grayville, Middletown and Prairietown, Ind., and Fanfield, Olney and Ribonson, Ill. The road will cross the Wabash River at Merom and Sullivan County, Indiana, and Crawford County, Illinois, will, it is stated, construct a bridge over river.

LAPORTE, IND.—It is reported that the Laporte & Eastern Ry. Co. has been incorporated with $500,000 cap. stock. The proposed line will be operated by electricity and connect Laporte and South Bend.

LANSING, MICH.—The Lansing and Suburban Traction Co. has let contract for construction of an extension of its line from Lansing to Pine Lake, a distance of about eight miles.

JERSEYVILLE, ILL.—J. B. Crankshaw, Ch. Engr. Alton, Jacksonville & Peoria Ry., informs us that the field work will begin next month and work of construction will begin about April 1. General office in Jerseyville.

FREEPORT, ILL.—It is reported that an electric line will be built in the near future betwen Freeport and Dubuque.

SPRINGFIELD, IND.—Articles of incorporation were filed in office of the Secretary of State by Springfield & Western Ry. Co. The principal office is at Springfield. Capital stock $100,000. The road will be constructed from Springfield through the counties of Sangamon, Schuyler, Morgan, Cass, Brown, Pike and Adams, to Quincy. Incorporators: F. M. Mills, D. A. Watson, Geo. A. Wood and R. H. McAnulty of Springfield, and K. H. Seibel of Chicago, Ill.

SPRINGFIELD, ILL.—Articles of incorporation were filed by the Rock Island, Moline & Davenport Suburban Ry. Co. The principal office is to be at Rock Island. The capital stock is nominally $5,000. It is proposed to operate a railway between Rock Island and Moline. Incorporators: August E. Steffen and C. G. Hipwell, of Davenport, Ia., and John W. Green, Stewart Spaulding and Wm. A. Rawson, of Chicago.

EAST ST. LOUIS, ILL.—The Troy & Suburban Ry. Co. has been organized to construct a road from Troy to Maryville, in Madison County, Ill. Incorporators: L. C. Haynes and J. M. Bramlette, T. W. Gregory, of East St. Louis, and M. W. Schaefer and James A. Farmer, of Belleville, Ill.

VINTON, IA.—A franchise has been granted to H. R. Mornat and John Lorenze, the promoters of a proposed interurban line to run between Belle Plaine and Vinton, granting the use of streets of the two cities for the operation of line. It is the intention of the promoters to organize a local company. Part of right of way has been offered by farmers living along the line of the preliminary survey, and it is expected that the organization of the company will be effected early enough so as to allow work to begin this coming summer. The principal towns taken in will be Vinton, Garrison, Keystone and Belle Plaine.

ST. PAUL, MINN.—Press reports state that the Twin City Transit Co. expect to build a street railway in South St. Paul. W. J. Hield is Gen. Mgr.

ARKANSAS CITY, KAN.—The Kansas & Oklahoma Interurban Ry. Co. announces that work of construction of the proposed system would begin at once. L. P. H. Northrup is Gen. Mgr., City.

KANSAS CITY, MO.—Plans for building a line of street railway so as to connect the James St. line in Kansas City, Kan., with the stock yards are being prepared by Metropolitan Street Ry. Co. The line will be constructed on the James St. viaduct, which will have to be widened and strengthened. J. W. Carter is Gen. Supt.

CORPUS CHRISTI, TEX.—The St. Louis, Brownsville & Mexico Ry. Co. proposes to build a line from Corpus Christi to connect with Brownsville. F. G. Jonah is Ch. Engr.

FAIRFIELD, TEX.—Plans are being perfected for construction of an electric road from Corsicana to Fairfield, 32 miles. Right of way is being secured and location will proceed as soon as possible.

GUTHRIE, OKLA.—The Guthrie Ry. Co. has been chartered with a capital stock of $600,000, to build an electric line from Edmond to Guthrie, a distance of 20 miles. They also have the privilege of building telephone and telegraph lines. Incorporators: L. N. Beadles, J. R. Cottingham and Geo. M. Green, of Guthrie, and others.

DAVENPORT, WASH.—A franchise has been granted by City Council to the Adams County Electric Railroad & Transit Co. to run its line through the town.

WALLA WALLA, WASH.—Wm. S. Isaacs has been granted a franchise and right of way by County Commissioners for an electric railway from Walla Walla to Milton, back to Russell Creek, to Mill Creek and back to city.

SPOKANE, WASH.—The business men here, it is reported, have subscribed $38,000 for proposed electric road from Spokane to Moscow, Idaho. $200,000 had been subscribed by the citizens. It is estimated that the road and power plant will cost $3,250,000.

EUREKA, CAL.—An application for a franchise over seven miles of streets will be presented to City Council by J. E. Green and J. M. O'Brien of San Francisco.

OAKLAND, CAL.—An ordinance has been passed by City Council granting a franchise to the Oakland Traction Consolidated to construct and operate a street railway line on Broadway to grounds of Claremont County Club. E. M. Boggs is Engr.

SAN DIEGO, CAL.—Bids are asked by City Council until Feb. 23 for the purchase of a street railway franchise to start at D and State Sts. H. W. Vincent, Cy. Clk.

PORTLAND, ORE.—Contract to construct trolley line to Hillsboro for the Oregon Traction Co. has been awarded to ERICKSON & PETTERSON, of San Francisco, Cal.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

LACONIA, N. H.—The City Council is desirous of letting a contract for furnishing arc and incandescent street lighting for a term of ten years, at a yearly expense of about $7,000. J. G. Quimby, M. D., is Chn. of the Com. on Lighting Streets, Lakeport. (Advertised, Engineering News.)

PITTSFIELD, MASS.—The power plant to be erected by the Pittsfield Street Ry. Co. will be located at Coltsville, it is stated. P. C. Dolan is Mgr.

BOSTON, MASS.—F. O. Whitney, Ch. of Surveying Division, St. Comr.'s Dept., informs us that only first steps have been taken regarding municipal gas plant, noted on Jan. 12. No plans have been prepared. The order introduced in Council and passed was as follows: "Ordered, that the city of Boston be authorized, and is hereby authorized, in accordance with the provisions of Chapter 34 of the Revised Laws of Massachusetts, to construct, purchase or lease, and maintain within its limits, one or more plants for the manufacture and distribution of gas and electricity for furnishing light for municipal use, and light, heat and power, except for the operation of electric cars, for the use of its inhabitants." This chapter provides that city shall not acquire such a plant until it has been so authorized by a vote of two-thirds of each branch of its city council passed in each of two consecutive municipal years and thereafter ratified by a majority of the voters at an annual or special city election. If such a vote is not ratified, no similar vote shall be submitted for ratification within one year thereafter. Such vote of the city council shall be subject to the approval or veto of the mayor.

ROCKPORT, MASS.—The Tidal Power Co., of Rockport, has been incorporated by Roger W. Babson, Herbert E. Smith and Ray W. Turner, with $500,000 capital, to "harness the Atlantic Ocean, or as much of it as is necessary for the company's use, and company in return agrees to generate and distribute power to all sections of the state for every conceivable purpose." Company claims to be able to furnish power for propelling railroad trains, street railway cars, running mercantile and manufacturing establishments, etc.

ROCKVILLE, CONN.—Mayor George Forster, in his annual message, is stated to have recommended the municipal ownership of the electric light plant.

WEST POINT, N. Y.—Bids are asked until Feb. 15 for the construction and installation of Corliss engines for electric lighting. Address Quartermaster, U. S. M. A.

CAMBRIA, N. Y. (Niagara post office).—Town Board has granted franchise to Niagara, Lockport & Ontario Power Co. to construct and maintain a transmission line through this place. $50,000 will be expended here within one year.

CLINTON, N. Y.—It is proposed to construct an electric light plant at a cost of $7,000. Bids will be received soon. H. E. Thomas is Village Clk.

BUFFALO, N. Y.—The Board of Aldermen recently adopted a resolution directing Francis G. Ward, Comr. of Pub. Wks., to prepare estimates for a municipal lighting and power plant. Commissioner Ward estimates cost at $3,000,000.

MIDDLETOWN, N. Y.—The Orange County Lighting Co., of Middletown, has been incorporated with a capital of $100,000. This company takes over the property and franchises of the Orange County Gas & Electric Co. The directors are: Philip N. Jackson and Percy Ingalls, of Newark; Theodore L. Reeve, Clarence C. Corwin and Leander C. Purdy, of Middletown.

BAYONNE, N. J.—Thomas Brady, Mayor, has announced himself in favor of city ownership of electric lighting plant. A new plant may be erected to be operated by city.

ASBURY PARK, N. J.—Local press reports state that Jesse W. Starr is about to petition Council for a franchise for a gas and an electric light plant.

CAMDEN, N. J.—The Public Service Corporation will erect here a new electric power plant.

RENOVA, PA.—It is stated that JOSEPH P. KANE, of Renova, has secured the contract for lighting the streets at $65 per light per year for 2,000 c. p. arc lights; $58 for 1,200 c. p. and $13 for 32 c. p. incandescents. He will commence at once the construction of a plant for municipal and commercial electric lighting. Edwin Bower is Chn. of Light Com.

> ***Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.***

NEW MILFORD, PA.—A. E. Snyder, Treas. New Milford Light & Power Co., writes us that Shepherd & Rust, Wilkesbarre, are Engrs. for proposed power plant. There is yet some construction work to be done and material purchased which may be contracted for. Estimated cost, $8,000 to $9,000.

SHAMOKIN, PA.—Bids have been received for increasing capacity of steam power plant for Shamokin & Coal Township Light & Power Co. Estimated cost, $40,000. George Brett is Supt. F. W. Darlington, 1120 Real Estate Trust Bldg., Philadelphia, is Engr., we are informed.

HANOVER, PA.—J. W. MUMPER, of Hanover, is stated to have secured the contract for lighting the borough for ten years at $64.92 per light for 2,000 c. p. gasoline lights on an all-night service.

MONONGAHELA, PA.—The Citizens' Gas Co. has been chartered. Company will operate in Carroll, Fallowfield, Somerset and Union Townships, Monongahela, Washington County, and Forward Township, Allegheny County. The directors are W. S. Shepler, G. M. Murphy, John Zeh, S. M. Downer and James C. Corrin, all of Monongahela.

WASHINGTON, D. C.—Bernard R. Green, Supt. Congressional Library Bldg., has submitted report to Congress in connection with plans and site for proposed central power station for present and new buildings on the Mall, near the White House. It would provide for heating and ventilation of 13 buildings. Prof. S. Homer Woodbridge, of Massachusetts Institute of Technology, is Consulting Engr. Estimated cost is $450,000 and total cost of its instalment, $1,173,040. Operating expenses, $211,855 a year. The proposition includes the removal of all boilers and engines of every description, including those for lighting, heating and ventilating, from every building in the large group of public structures in this section, and the establishment of a single distributing point, with an elaborate system of pipes and conduits from the power house to the various departments and bureaus.

BALTIMORE, MD.—The United Railways and Electric Co. has awarded to JOHN WATERS the contract for reerecting the north building of the Pratt St. power house. The new building is to be of steel and concrete, and will be fireproof. Contracts were also awarded to McINTOSH & SEYMOUR, of Auburn, N. Y., for a 7,500-HP. unit engine for the power house; contract for generator awarded to WESTINGHOUSE ELECTRIC MANUFACTURING CO. It is estimated that $250,000 will be expended in the reconstruction and the new machinery.

The United Railways Co. contemplates the erection of another generating power house on Eastern Ave., at the junction of the Back River and Steelton lines. Plans are for a large structure to be built entirely of concrete. It will be about 50 ft. high, one story and two galleries, 30 × 90 ft. The Steel Construction Co. is one of the bidders. The bids are to be in Jan. 25.

MANASSAS, VA.—W. E. Crosen & Co., of Leesburg, have applied to the Council for an exclusive franchise for the erection and maintenance in that town of a system of electric lights during a period of 15 years. The proposed plant will have a capacity of 750 standard 16-c. p. lamps.

BENWOOD, W. VA.—The Ohio Valley Electric Light Co. will increase capacity at old plant by the installation of new and modern machinery. The remainder of the McMechen plant will be removed to Benwood. Company has elected the following officers: General superintendent, William H. Snider; Pres., Thomas P. Deegan; Vice-Pres., Charles P. Kinney; Secy., William Leach, Jr.; Treas., Charles Schad.

SALISBURY, N. C.—T. A. GILLESPIE & CO., 71 Broadway, New York, have been awarded contract by The Whitney Reduction Co., of New York, for general construction of a dam across the Yadkin River, 18 miles from Salisbury. Estimated cost, $1,700,000. It will take two years to complete work. At office of the Gillespie Co. it was stated that the company is not yet ready to announce details. E. B. C. Hambley is Pres. of Whitney Co. On Oct. 27 it was noted in Engineering News that "preliminary work will soon be completed for the development of the water power available at the 'narrows' on the Yadkin River, 18 miles from this city. L. G. Whitney, of New York, Pres. Whitney Reduction Co., and F. L. Stephenson, together with a company of surveyors and contractors, have made preparation for active work. Estimated cost, $5,000,000. It is said that 46,000 HP. may be developed."

ASHBORO, N. C.—The Ashboro Electric Co. has incorporated, with $50,000 capital, to establish electric light plant. Incorporators, W. C. Hammer, A. M. Rankins and others.

FT. VALLEY, GA.—J. L. Fincher, Mayor, states that it is proposed to construct an electric light plant, at a cost of about $6,000. Contracts will probably be let in April. Noted on Jan. 19.

ELBERTON, GA.—O. H. Sheffield, of Atlanta, will erect an electric power plant near this place and will furnish power for running manufacturing plants in Elberton.

HAZELGREEN, ALA.—The New York-Alabama Oil Co. is reported to have plans to lay a pipe line for conveying natural gas from its wells in Hazelgreen to Huntsville, a distance of 13 miles. Estimated cost, $40,000.

McCOMB, MISS.—The McComb City Electric Light & Power Co., of McComb, has been incorporated, with a capital of $50,000.

KNOXVILLE, TENN.—Municipal electric light and water plants are planned. Mayor W. H. Gass will petition general assembly to grant city authority to issue $200,000 of bonds for building lighting plant. Horace Vandeventer, John M. Brooks, John W. Green, W. T. Lang and Rudolph Knaffl are members of Light Commission.

The "Pink Sheet Bulletin" states that it is expected that the plant of the Knoxville Power Co., on Little River, near this city, will be constructed soon. The company proposes to expend about $2,000,000 in the erection of a dam and an electric generating plant, and to transmit the power to Knoxville and various towns in this section of East Tennessee. Gen. J. I. Wilder is interested.

MORGANFIELD, KY.—An electric plant may be built here, one which will be large enough to furnish light for Morganfield, Uniontown, Sturgis, Waverly, Henshaw and a number of other towns located in a circuit of about 20 miles. Henry Oliver, of Fulton, is said to be the promoter.

COVINGTON, KY.—T. J. Creaghead, Engr., has submitted a report to Council regarding site for new municipal light plant. It may cost $75,000.

TERRE HAUTE, IND.—The plant of the Terre Haute Traction & Light Co. was burned on Jan. 21. Loss, about $100,000.

WARSAW, IND.—The Winona Interurban Railroad Co. will erect large buildings and install new and heavier machinery, at a cost of $600,000, to furnish the power for the various electric lines the company proposes building this coming summer. J. G. Sargent, of the firm of Sargent & Lundy, of Chicago, is reported to be running the survey lines. Harry S. Dickey is Supt.

MUSKOGEE, IND. T.—C. W. Haskell, Chn. Com., Commercial Club, states that it is proposed to develop the water power of Grand River and construct a power plant, at a probable cost of $800,000. D. W. Bolich is Engr.

LINCOLN, ILL.—The stockholders of the Springfield and Northwestern Interurban Co. have voted to issue $700,000 bonds to cover the cost of construction and power house for the line between Springfield and Bloomington. The power house will be at Lincoln.

SPRINGFIELD, O.—The American Railways Co. and Springfield Light & Power Co. will erect a new electric lighting plant, it is reported. C. L. S. Tingley is Secy. of Ry. Co. A. S. Kibbie is Ch. Engr. John H. Miller is Gen. Supt.

LUDINGTON, MICH.—Warren & Pettigrew, of Fox Lake, Wis., are reported to have made estimates for a gas plant at this place. H. M. Wallace, of Grand Rapids, has the franchise. Work will be begun as soon as weather permits.

ANN ARBOR, MICH.—Wm. Goodyear, Chn. Lighting Com., has announced that bids probably will be received about Feb. 1 for lighting the city streets. Ross Granger is City Clk.

WATERLOO, IA.—The Waterloo & Cedar Falls Gas & Electric Light Co. has been incorporated with a capital of $550,000, with headquarters at Waterloo. It will engage in a general gas and electric business, and is incorporated with the principal object of constructing a gas plant at Cedar Falls, where a franchise was recently granted. President, Geo. McLean, Dubuque; Vice-President, Geo. E. Lichty, Waterloo.; Secretary, H. B. White; Treasurer, W. W. Miller, Waterloo.

MARSHALLTOWN, IA.—L. Derby, City Clerk, states that it is proposed to increase the electric light service from 130 to 200 arc lights. Estimated cost, $8,000.

SCOTTSBLUFF, NEB.—G. L. Shumway, of Scottsbluff, Secy. of the Pathfinder Electric & Water Power Co., writes us that this company will erect a power plant between Gering and this place. Bids will be received in June or July. Estimated cost of plant is $85,000. Plant will furnish power for operating trolley line between the above-mentioned cities and for manufacturing and milling enterprises. W. W. White, O. W. Gardner and G. L. Shumway are officers in charge. Plant will have capacity of 12 2,000-c. p. arc lights; 1,000 16-c. p. and 50 32-c. p. incandescents. Noted on Jan. 12.

TEMPLE, TEX.—F. D. Lyon, Pres. Texas Gas Co., has announced that bids will be received on Feb. 15 for the construction of a gas plant (oil or water gas) with 100,000 cu. ft. daily capacity; probable cost $35,000. R. T. Chase, of Temple, is Engr.

EUGENE, ORE.—See under Sewerage.

ORANGE, CAL.—H. Wyneken, Cy. Clk., informs us that electric light bonds, noted on Jan. 5, were defeated; $50,000 water bonds were voted.

EUREKA, CAL.—Bids are asked until Feb. 14 for franchise to maintain and construct certain poles and wires over highways in Humboldt County, as applied for by the North Mountain Power Co. W. H. Haw, Clk.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

HAVERHILL, MASS.—It is announced that the County Commissioners have decided to locate the new bridge across Merrimac River in this city at the junction of River and Washington Sts. Robt. R. Evans is Cy. Engr.

WOONSOCKET, R. I.—Frank H. Mills, Cy. Engr., informs us that the bridges in the city will not be repaired for some time.

HARTFORD, CONN.—It is stated that the Board of Street Commissioners are considering and will probably build next spring two bridges on Albany Ave., one a stone arch over Woods River, est. cost, $20,000; the other a steel bridge over tracks of Central New England R. R., est. cost, $30,000, including grading.

NEWFANE, N. Y.—Town authorities have petitioned the Supervisors for authority to issue $13,750 bonds for the purpose of building a new bridge over Eighteen-Mile Creek.

NEW YORK, N. Y.—The bid of the ATLANTIC, GULF & PACIFIC CO., of $64,863, has been accepted for constructing Ayala Bridge over Pasig River at Manila, bids for doing which were received Dec. 1. The bids for this work will be found under the heading U. S. Possessions and Cuba in this issue.

CAMDEN, N. J.—The contract for steel bridges over the streets, to be built by the Pennsylvania Railroad, has not yet been placed. W. H. Brown is Ch. Engr., Philadelphia, Pa.

ALLENTOWN, PA.—Contract for repairing bridge over Lehigh River was awarded by County Commissioners to DANIEL JACOBY, the lowest bidder, for $4,000.

BANGOR, PA.—Town Council is considering the construction of two bridges at a cost of $6,000.

PHILADELPHIA, PA.—An ordinance to permit J. P. Mathieu & Co. to construct an iron bridge across Ontario St. was approved by Common Council. John Weaver, Mayor.

CLARKSVILLE, VA.—Three spans and piers of new toll bridge here, now under construction, were carried away Jan. 7 by high water. Loss about $10,000.

CHARLESTON, W. VA.—Bids are asked until Feb. 16 for the erection of a truss bridge across Elk River, having a 30-ft. roadway in the clear with concrete, brick floor and two cement sidewalks, 8 ft. in the clear. W. A. Hogue, Cy. Engr. (Advertised, Engineering News.)

MACON, GA.—It is stated that the Central of Georgia Ry. Co. will construct a bridge at Walnut St. H. M. Steele is Ch. Engr., Savannah.

DECATUR, ALA.—A bill authorizing the Decatur Transportation & Mfg. Co. to build a bridge over Tennessee River at or near Decatur was passed by Lower House of Congress. The plans to be approved by Secretary of War.

CHARLESTON, MISS.—The county has issued $25,000 in bonds for new bridges.

COVINGTON, LA.—A new steel bridge will be built across Bogue Falaya River at this place. Geo. Keopp, Jr., M. C. Day and L. T. Miles are the committee, and can give information.

COLUMBUS, O.—Bids are asked by County Commissioners until Feb. 16 for constructing substructure, superstructure, approaches and concrete arch roadway; also paving of Hubbard Road bridge over P., C., C. & St. L. Ry., in Prairie Township. L. E. Jones, County Audr.

CINCINNATI, O.—C. A. Wilson, Ch. Engr., Cincinnati, Hamilton & Dayton Ry. Co., writes us that no official information has been received in his office relative to the construction of a reported $1,000,000 bridge to be erected across the Ohio River.

CINCINNATI, O.—Bids are asked by County Commissioners until Feb. 18 for new woodwork on iron bridge over Great Miami River at Miamitown, Whitewater Township. Eugene L. Lewis, County Audr.

CINCINNATI, O.—It is stated that Eugene L. Lewis, County Audr., will receive bids Feb. 18 for construction of culvert and approaches on Bridgetown road.

PORT CLINTON, O.—Bids are asked by County Commissioners until Feb. 17 for constructing superstructure of an iron or steel bridge, 225 ft. long and 16 ft. roadway, across Portage River on Ryer Road in Harris Township. Henry Patenbach, County Audr.

TOLEDO, O.—We are informed that the contract for constructing substructure and superstructure of bridge on Clark Ave. was awarded to HUSTON & CLEVELAND, of Columbus.

LAFAYETTE, IND.—It is reported that the Cleveland, Cincinnati, Chicago & St. Louis R. R. will build a new bridge across Wabash River at southern limits of this city, if present plans are carried out. G. W. Kittredge is Ch. Engr., Cincinnati, O.

TERRE HAUTE, IND.—See under Electric Railways.

DES MOINES, IA.—Bids are asked by Board Public Works until Jan. 31 for filling approaches to Southeast Sixth St. bridge; requiring about 16,577 cu. yds. embankment at north approach, and 1,664 cu. yds. at south approach. W. W. Wise, Chn.

ALEDO, ILL.—G. C. McINTYRE, City, has the contract for three new steel bridges to be erected this spring.

BRUCE, WIS.—The Minneapolis, St. Paul & Sault Ste. Marie R. R. will soon build new bridges in Gates County. One of the bridges will be over Flambeau, east of Ladysmith, and the other over Chippewa River at Bruce. Thos. Green is Ch. Engr., Minneapolis, Minn.

OSHKOSH, WIS.—The following bids were received by Board Public Works Jan. 14 for constructing superstructure of bridge across Fox River at Main St.; lump sum bids include iron and steel, planking, machine and electric motors, etc.: MODERN STEEL STRUCTURAL CO., Waukesha, Wis., $58,673 (awarded contract); Worden Allen & Co., Milwaukee, $58,700; Milwaukee Bridge Co., Milwaukee, $58,800; Jackson & Corbett, Chicago, Ill., $59,590; Wisconsin Bridge Co., Milwaukee, Wis., $59,982; Russell Wheel & Foundry Co., Detroit, Mich., $59,861; C. L. Strobel, Chicago, Ill., $60,900; Standard Construction Co., Chicago, $63,960; Morava Construction Co., Chicago, $64,440; Friedstein & Friedstein, Chicago, $65,400; Penn Bridge Co., Beaver Falls, Pa., $67,200; New Castle Bridge Co., Indianapolis, Ind., $70,800; King Bridge Co., Cleveland, O., $71,600. Karl L. Lehmann, Consult. Engr., 910 Opera House Bldg., Chicago.

TOPEKA, KANS.—Plans for six bridges to be constructed by this city are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Feb. 6.

YORK, NEB.—Bids are asked by York County Commissioners until Feb. 20 for construction of new bridges in county for year 1905. C. C. Bolslaw, County Clk.

SHERBROOKE, N. DAK.—Bids are asked by County Commisioners until Feb. 13 for repairing two old and constructing ten new bridges in Steele County. S. McPherson, County Audr.

BILLINGS, MONT.—We are informed that the contract for construction of bridge across Yellowstone River, near Junction, has been awarded to W. S. HEWITT & CO., Minneapolis, Minn., for $34,700. J. W. Fish is County Clk.

HELENA, MONT.—Bids are asked by County Commissioners until Feb. 2 for constructing five steel highway bridges in Prickly Pear Canyon. Percy R. Witmer, County Clk.

KANSAS CITY, MO.—See under Electric Railways.

VAN BUREN, ARK.—The Van Buren Electric Railway & Bridge Co. has been granted a franchise to construct a bridge across river here. Phil. D. Scott is Pres.

SANTA FE, N. MEX.—County Commissioners have awarded a contract to TEXAS BRIDGE CO., of Dallas, Tex., for the erection of a steel bridge across Pecos River, for $4,978. The bridge will be 375 ft. long.

SPOKANE, WASH.—Railroad contractors of Spokane have received specifications from Northern Pacific R. R. Co. for a new steel bridge to span Columbia River at Pasco. Work is to start after high water subsides in August, and contractors are asked to bid. The structure will cost about $75,000 for work and $225,000 for steel.

PHOENIX, ARIZ.—The bridge over Gila River, at Kelvin, on the Phoenix & Eastern Railroad, was damaged by storms.

DAYTON, NEV.—It is reported that bids will be received by County Commissioners until Feb. 6 for construction of a bridge across Walker River, in Mason Valley, of either wood or steel materials. T. W. Melarkey, County Clk.

EDMONTON, N. W. T.—The Calgary & Edmonton R. R. Co. has applied to Legislature for permission to issue $1,000,000 of bonds for building a high-level bridge over Saskatchewan River, between Edmonton and Strathcona.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is reported that the $6,000,000 left by the late Peter Bent Brigham for a hospital in this city may be used for that purpose, according to recent decision of the Supreme Court.

SALEM, MASS.—Kilham & Hopkins, Archs., 9 Park St., Boston, write us that estimated cost of proposed high school building is $175,000. It will be of brick, four stories high, 150 × 225 ft. Noted on Jan. 19.

ROCHESTER, N. H.—Mayor Bickford in his inaugural address stated that he is in favor of plan to build a city building.

BOSTON, MASS.—Parker & Thomas, 20 Beacon St., are architects for proposed studio building, on Ipswich St., as noted last week. We are informed by the architects that building will be of brick, stone and wood, four stories high, 272 × 31 ft. Estimated cost, $100,000.

SPRINGFIELD, MASS.—County Commissioners may erect a fireproof building west of the court-house on Elm St., at a total cost of about $200,000.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

Pascal L. Morse plans to erect an assembly hall building. It will be 200 × 100 ft., brick. Estimated cost, $75,000.

PROVIDENCE, R. I.—The Y. W. C. A. will erect 7-story and basement red brick and terra cotta building at Jackson and Washington Sts. Cost, about $125,000.

STAMFORD, CONN.—E. L. Scofield is Chn. of the Com. that will have charge of the erection of municipal building. Cost, $150,000. C. Mellen, 27 West 30th St., New York, is Arch. J. H. Provost is Cy. Clk.

NEW HAVEN, CONN.—G. T. Hewlett, Secy., Bd. Education, writes us that local architects have been invited to submit competitive plans on Feb. 10 for proposed [illegible]-room brick and stone school building. It will cost about $60,000 with $5,000 additional for equipment.

CANANDAIGUA, N. Y.—Bidding sheets for an academy building are on file at office of Engineering News. Bids are asked by Board of Education, until noon, Feb. 4, for constructing an academy building, to cost about $[illegible],000. It will be located on Main St. Separate contracts will be let as follows: General construction, heating, plumbing and electrical work. F. J. Sleght, Secy. Bd., writes us that plans and specifications are at office of architect, Wilson Potter, 3 Union Sq., New York City. John Raines is Pres. Bd.

NEW YORK, N. Y.—The Hebrew Orphan Asylum Society plans to erect a $250,000 annex to the present building at Ralph Ave. and Pacific St., Brooklyn Boro. Edward Kaufman is Chn. of Com.

The New York Ophthalmic & Oral Institute, 46 East 12th St., has a site at 64th St. and Central Park West for proposed building which will be erected when $350,000 has been raised. William P. Howe is Secy.

A 22-story hotel will be erected on Battery Pl., between Washington and Greenwich Sts. Cost, $2,000,000. A syndicate has purchased a site at cost of $2,050,000.

A site will be secured, it is said, and plans prepared for proposed $1,000,000 model tenement to be erected by Henry Phipps. Robert W. DeForest, 30 Broad St., is interested.

A site for a new building has been secured by the North Side Board of Trade facing the plaza at 138th St. and Third Ave. A 7-story building will be erected. Cost, including land, $275,000. The building committee consists of John F. Steeves, James L. Wells, Albert E. Davis, Matthew Anderson, George Stark, William J. Williamson and Samuel Marx.

BROOKLYN, N. Y.—The site at Rodney St., Marcy Ave., Division Ave. and Keap St. will be secured by Board of Education by May 1. The proposed new Eastern District high school will be erected thereon. Bids will be advertised in usual manner. C. B. J. Snyder is Supt. School Bldgs., Bd. Education, 59th St. and Park Ave., Manhattan Boro.

W. O. Weaver & Son, Harrisburg, Pa., Archs., have drawn plans for the Duryea Presbyterian church, 94 × 118 ft. It will cost $60,000.

HILLSBORO, N. DAK.—Bids are asked until Feb. 7 for plans and specifications for a $60,000 court house building. Peter Davidson, County Audr.

NEW YORK, N. Y.—Bids are being received by York & Sawyer, 156 Fifth Ave., Archs., on general contract for the new Manhattan Eye, Ear and Throat Hospital building, 118 × 100 ft., to be erected at 208-216 East 64th St. Estimated cost, when completed, about $600,000. It will be fireproof, nine stories in height, steel frame, slag roof, with hospital equipment. The building committee is composed of John Sinclair, 16 East 60th St., Pres.; Geo. G. Heye, 667 Madison Ave., Chn., and Edgar S. Thomson, 19 East 44th St., Secy.

William T. Wardwell, of the Standard Oil Co., 26 Broadway, has given $100,000 for the building of a new Red Cross Hospital. The new building will be situated on the heights of Fort George. The entire cost will be between $350,000 and $400,000. The present hospital of the Red Cross is on 82d St. west of Columbus Ave. William T. Gans is a trustee.

FORT SLOCUM, N. Y.—Bids are asked until Feb. 8 for constructing brick double barracks. W. J. Davis, Q. M. Plans may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

SYRACUSE, N. Y.—Syracuse University will build a new laboratory with $200,000 bequest of John Lyman estate.

FLUSHING (L. I.), N. Y.—Bids are asked until noon, Feb. 7, for construction, heating, plumbing, electric light wiring and fixtures, and gas piping for a state armory, at Flushing. G. L. Heins, State Arch., Albany. Charles F. Roe, Major-Gen., Bd. Armory Comrs., Albany.

BINGHAMTON, N. Y.—Bids are asked by the State Board of Armory Commissioners, Albany, until Feb. 14, for the construction, structural steel and iron work, heating, plumbing, electric light wiring and fixtures, and gas piping for a state armory, at Binghamton. Charles F. Roe, Maj.-Gen., State Bd. Comrs.

BUFFALO, N. Y.—A. O. Von Herbulis, Arch., Kellogg Bldg., Washington, D. C., will receive bids for a Catholic school here. Estimated cost, $80,000.

UNION HILL (WEEHAWKEN POST-OFFICE), N. J.—T. W. Dinkins, Mgr. of Bon Ton Theater, Jersey City, and William Klein will build a $125,000 theater at Hackensack turnpike, Bergenline Ave. and Franklin St. Tentative plans have been prepared by Frederick Klein. Final plans are to be prepared by J. B. McElfatrick & Son, 1402 Broadway, New York.

JERSEY CITY, N. J.—The Robert Davis Association will erect a $75,000 building probably on Mercer St., adjoining present clubhouse. Thomas F. Rooney is Pres.

NEWARK, N. J.—John W. Ferguson, United Bank Bldg., Paterson, N. J., will prepare plans for proposed Central Ry. of New Jersey brick and stone, fireproof warehouse to be erected on block bounded by company's tracks, Lawrence, Mechanic and Ward Sts. Estimated cost, $500,000. B. F. Flory is Mechanical Engr. at Jersey City.

PRINCETON, N. J.—The trustees of Princeton University are stated to have decided upon plans for the new alumni dormitory, which will cost $130,000. The style is to be the collegiate Gothic. Benjamin W. Morris, Jr., 5 West 31st St., New York, is Arch.

ATLANTIC CITY, N. J.—Bids are asked until 3 p. m., Feb. 3, for electric lighting and conduits for call bell, telephone and clock wiring, etc., in the U. S. post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

PHILADELPHIA, PA.—Bids have been received as follows by County Commissioners for the House of Detention to be erected at 22d and Arch Sts.: Henderson & Co., Ltd., $78,277; Doyle & Doak, $81,884; John R. Wiggins & Co., $88,876; and John W. Emery, $97,196. Councils have not yet made appropriation for the work.

HARRISBURG, PA.—Representative Shern, of Philadelphia, has introduced a bill to appropriate $300,000 for the Free Hospital for Poor Consumptives. Of this sum

$100,000 is for the maintenance of the sanitarium at White Haven, $100,000 to assist in the erection and equipment of new buildings, and $100,000 to assist in purchasing a site.

EAST LIBERTY, PA.—THE COLUMBIA CONTRACTING CO. has been awarded contract for excavating and foundations for proposed Pennsylvania Ry. station. W. H. Brown, Ch. Engr., Pennsylvania Ry. Co., Philadelphia, is now receiving bids for construction of the building. Total cost, $350,000.

BLOOMSBURG, PA.—M. B. Ritter, Arch., Williamsport, Pa., is preparing plans for a building for the Bloomsburg Hospital.

PITTSBURG, PA.—The Pittsburg Coal Co. will erect a 10-story office building at 228 Fifth Ave. Cost, about $200,000, it is reported.

Edward J. Schellenbrager, Arch., has prepared plans for a group of apartment buildings to be erected at Penn and Homewood Aves., East End, by the Commonwealth Realty & Construction Co. Total cost of buildings, about $475,000.

J. P. Bailey, Arch., Times Bldg., has plans for 20 houses for the Walker Place Improvement Co. Cost, $150,000. Address Geo. T. McDonald, Times Bldg.

OAKLAND, PA.—Board of Trade may recommend that site on Bellefield Ave. be bought for proposed high school. Charles H. Chance is Pres.

WASHINGTON, D. C.—B. P. O. Elks Lodge No. 15 will build a $300,000 clubhouse at 919 and 921 H St., N. W. Committee in charge: Ira A. O'Brien, L. A. Bailey, M. G. McCormick, P. T. Moran, F. B. Clarkson, L. M. Pushaw and E. G. Shafer. M. G. McCormick, Treas., is reported to have stated that plans will be submitted for approval soon.

Henry Ives Cobb, 1757 N St., N. W., is Arch. for the McKinley Memorial College of Government building which is to be erected on the grounds of the American University. It is reported that certain contractors have been selected to submit bids for its erection before Feb. 21. Probable cost, $250,000. Bishop C. C. McCabe, Chancellor of the Univ., is a member of the Bldg. Com.

ANNVILLE, PA.—A. A. Ritcher, Arch., Shenk Bldg., Lebanon, Pa., and Colonial Trust Co. Bldg., Reading, has been engaged to prepare the plans and specifications for the rebuilding of Lebanon Valley College at Annville. Four buildings are to be erected.

MARION, VA.—Frank P. Milburn, Columbia, S. C., is architect for Smyth County county court-house. It is to be 60 × 100 ft., equipped with steam heat, electric lights, etc. Cost, $52,000.

BALTIMORE, MD.—The Home Friendly Society has received plans for a 12-story office building to be erected at West Fayette St. and Goodwin alley. William Burnett Tuthill, 105 East 22d St., New York, is Arch. Charles Gilpin, builder, has been asked to make an estimate on the cost of erecting the structure. L. B. Talley is Secy.

T. Edward Gresslee, 221 St. Paul St., is interested in plan to build an apartment house at Eutaw Pl. and Mosher St. Tentative plans have been made for the building by Poindexter, Flournoy & Miller, Archs., 806 17th St., N. W., Washington, D. C. Building is to be 12 stories high, 145 × 160 ft.; steel frame fireproof construction. Estimated cost, $800,000; this includes $60,000 for site.

MOBILE, ALA.—Dr. O. F. Cawthon, it is reported, has had plans prepared by Watkins & Hutchinson, of Mobile, for a 5 or 6-story hotel to be erected at Conception and St. Francis Sts. Estimated cost, $250,000.

BIRMINGHAM, ALA.—Contract for erecting high school building has been awarded to THEO. POULL & CO., of Birmingham, at $87,200. Four bids were received.

LOUISVILLE, KY.—It is reported that the new savings bank, of which John M. Atherton will be Pres., is to erect at Fourth Ave. and Market St., an 8 to 10-story office building, to cost about $125,000.

The Library Trustees have approved plans prepared by Pilcher & Tachau for the public library. Plans are now to be prepared for the eight branch libraries which are to be erected with the $200,000 recently donated by Andrew Carnegie. Previously noted.

Brinton B. Davis, 505-506 Masonic Bldg., Arch., writes us that CALDWELL & DRAKE, of Columbus, Ind., have been awarded contract for new armory building. It will be 3½ stories high, 200 × 270 ft., fireproof, of stone and brick. Their bid was as follows: Stone, $348,511; stone and brick, $324,440; pressed gray brick, $338,411; pressed red brick, $335,311. Time, 197 days.

GREENWOOD, MISS.—Bids are asked until March 6 for building a court house. C. W. Crockett, Clk.

NEW ORLEANS, LA.—The Board of trustees of the Eye, Ear, Nose and Throat Hospital have completed arrangements for the erection of proposed hospital on block bounded by Elk Pl., Tulane Ave., Gasquet and South Franklin Sts. Building will be four stories high, of brick, white stone and terra cotta. Cost, $150,000.

FINDLAY, O.—Bids are asked until March 7 for construction of post office, complete, at this place. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

TOLEDO, O.—W. A. Otis, Arch., 175 Dearborn St., Chicago, Ill., is reported to be preparing plans for the remodeling of and the erection of an addition to the public library. Noah H. Swayne, Produce Exchange Bldg., is Pres. and Willis Sewell, Librarian.

INDIANAPOLIS, IND.—L. S. Ayres & Co. have been granted a building permit to erect new building at Meridian and Washington Sts. The building is to be eight stories high, fireproof. Cost, $234,000.

The Trustees of the Meridian St. Church, it is stated, have accepted plans prepared by Oscar D. Bolin, for a new church which is to replace the building recently burned. The total cost of the work is estimated at about $150,000. V. T. Malott is Chn. of the Bldg. Com.

A bill has been introduced in the legislature increasing the appropriation from $150,000 to $235,000 for the Girls' Industrial School. If the bill is passed the commision will ask for bids soon. Gov. Hanley is Chairman, ex-officio of the Commission.

NEW HARMONY, IND.—Dr. Edward Murphy has given $150,000 to the New Harmony Workingmen's Institute for a new library building. The legislature ratified the gift last week.

HAMMOND, IND.—Bids are asked until March 13 for construction of post-office and court-house. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

BATTLE CREEK, MICH.—Bids are asked until March 6 for construction (complete, except heating apparatus) of post office. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

ADRIAN, MICH.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until March 2 for the construction complete of the U. S. post office. (Advertised, Engineering News.)

MUSKEGON, MICH.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until March 8 for the construction complete of the U. S. post office and custom house. (Advertised, Engineering News.)

CHICAGO, ILL.—It is stated that the Union League Club will soon begin work on 50 × 100-ft. addition at Jackson Boulevard and Custom House Pl. It will cost $300,000. D. N. Burnham & Co. are Archs.

Within a year a new wing addition, one-fourth the size of the present Chicago Baptist hospital building, 33d St. and Rhodes Ave., will be built at a cost of $100,000, if the resolution adopted by the Chicago Baptist Hospital association is acted upon. Rev. Johnson Myers and William R. Harper, Pres. University of Chicago, are Directors.

CHICAGO, ILL.—The Kaiserhof Hotel Co., 266 Clark St., has leased the property at 262-264 Clark St., adjoining the Kaiserhof on the north, and will either erect a modern steel construction building, to cost not less than $100,000, it is reported, or may remodel the present building to conform with the Kaiserhof building.

It is again reported that Ernest A. Hamill, Pres. Corn Exchange National Bank, intends to build at Lake Forest a $75,000 residence. No architect has been selected. Nothing will be done before spring.

LAKE BLUFF, ILL.—Thos. B. and Joel W. Stearns, of Denver, Colo., it is reported, are interested in a company which intends erecting a hotel here at a cost of about $250,000.

Capt. Albert Ross has been appointed by Secretary Paul Morton, of the Navy Dept., to build the new naval station here, for which there is an appropriation of $250,000 available, according to reports.

OAK PARK, ILL.—City has voted to issue $160,000 of bonds for a new high school building.

ST. PAUL, MINN.—It is announced that a $450,000 building of reinforced concrete will be built for the Farwell-Ozman-Kirk Co., a wholesale hardware firm.

A theater will be erected here by the Orpheum Circuit Co., Martin Beck, Gen. Mgr., 504 Ashland Block, Chicago. G. E. Raymond is Resident Mgr. of Co. in Minneapolis. Building probably will cost $300,000.

FAIRMONT, MINN.—The Board of County Commissioners of Martin County has appropriated $100,000 for building a new court house. Plans for the building will be prepared this year and active work on the construction will commence next year.

FORT ASSINNIBOINE, MONT.—Bids are asked until Feb. 21 for plumbing and heating in new guard house, and for plumbing in double N. C. S. O. Quarters. Capt. J. B. McDonald, C. Q. M. (Advertised, Engineering News.)

MOBERLY, MO.—Bids are asked until March 11 for construction (including plumbing, heating apparatus, electric wiring and conduits) of post-office here. James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C.

ST. LOUIS, MO.—JAMES H. BRIGHT has contract for three buildings, to be erected on Clemons Ave. for Washington University. Estimated cost, $275,000. Mauran, Russell & Garden are the Archs.

A committee of ministers, representing all branches of Presbyterianism in St. Louis, is at work on plans for the establishment of a Presbyterian hospital in St. Louis, to cost $1,000,000. Rev. Dr. S. J. Nicolls, of the Second Presbyterian Church, is Chn.

The Apartments St. Louis Building Co. will be organized with $500,000 capital, to erect at Olive St. and Spring Ave. an 8-story fireproof apartment-house, 153 × 83 ft. Plans are being prepared by Theodore C. Link.

CHEYENNE, WYO.—Capt. W. S. Scott, Q.-M., Ft. D. A. Russell, informs us that the BERGGREN ELECTRICAL CO., of St. Paul, Minn., have been awarded the contract, at $2,950, for installing electrical fixtures in certain buildings.

FREDERICKSBURG, TEX.—Bids are asked until Feb. 1 for the erection and completion of a new stone church building at Fredericksburg, Tex. For further particulars apply to Rev. F. C. Neisens.

MANITOU, COLO.—D. N. Hitchcock, representing Denver capitalists, is reported to have asked Manitou for 8,000 bonus, proposing to build a $60,000 bath-house on site of Norris hotel, which is already secured by option.

SEATTLE, WASH.—Contract for the erection of the Summit school-house has been awarded to ROBERT BROWN, at $45,673.

FRESNO, CAL.—The following bids were opened Jan. 19 at the office of the Supervising Architect, Washington, D. C., for constructing the U. S. post-office at Fresno: Charles J. Lindgren, Fresno, $134,234, time, 14 months; Frank Rahorn, Fresno, $165,000; time, May 1, 1906; Horte & Dougan, Seattle, Wash., $137,285, time, 12 months.

SAN FRANCISCO, CAL.—J. Kamm, of Portland, Ore., will erect a 7-story fireproof, stone-front building on Market St. Bliss & Faville, Archs.

Bids are asked until Feb. 13 for the construction, plumbing, steam heating and electric wiring of 21 buildings at Point Bonita, Cal. Capt. W. C. Wren, Q.-M., Phelan Bldg.

LOS ANGELES, CAL.—A 3-story building will be erected at Main and Third Sts. by S. Hellman estate. A. M. Edelman is Arch. Cost, $200,000.

The Roman Catholic congregation will erect a Mercy Home on West Washington St. Plans have been prepared by Maginnis, Walsh & Sullivan, 100 Boylston St., Boston. Estimated cost, $60,000.

Same architects are reported to be preparing plans for a $400,000 cathedral, to be erected here.

The North American Trust Co. will erect a $475,000 building at Main and Fourth Sts. It will be eight stories high, steel-frame, fireproof. A. F. Rosenheim is Arch.

SANTA BARBARA, CAL.—It is reported that the Montecito Hot Springs Hotel Co., of which D. W. Linnard, Mgr. of the Hotel Maryland, Pasadena, is one of the principal owners and directors, is to be capitalized at $200,000. Work on a hotel costing $100,000 will begin soon, and the construction of 22 bungalows, costing $3,000 each, will be begun as soon as material is obtainable. The water from the hot springs will be piped to the hotel.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

VANCOUVER, B. C.—Dalton & Eveleigh, Archs., are preparing plans for 5-story business block, to be erected by E. P. Davis.

TORONTO, ONT.—S. G. Curry, Arch., has prepared plans for $50,000 branch post-office, to be erected at corner of Yonge and Charles Sts.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BRIGHTON, VT.—We are informed that question of constructing new water-works or for purchase of present private system has not been decided. A water commission, G. E. Clark, Island Pond, Vt., Chn., has charge of the matter. M. B. Ladd is First Selectman. Post Office, Island Pond.

BROCKTON, MASS.—Water Commissioners are to ask city government for $50,000 loan for construction work this season. It is proposed to lay from 12,000 to 15,000 ft. of 6-in. pipe and 2,000 to 3,000 ft. of 8-in. and 10-in. pipe.

EAST HAMPTON, MASS.—Special town meeting was to be held Jan. 21 to accept legislative act granting town right to take water supply from Sodden and North Brooks in Westhampton.

GLOUCESTER, MASS.—Water Commissioners received only one bid Jan. 17 for construction of pipeway under the canal, this being submitted by Gow & Palmer, 50 Congress St., Boston, Mass. It is stated that Commissioners will secure other figures on the work before awarding contracts.

QUINCY, MASS.—Order has been before Council calling for $30,000 for water extensions.

AGAWAM, MASS.—Town will petition legislature for leave to establish water system. Supply could be obtained from West Springfield and cost of pipe, hydrants, etc., would be about $10,000.

ATHOL, MASS.—Town has applied for legislative leave to establish water-works. Herbert S. Goddard is Selectman.

ATTLEBORO, MASS.—Legislature has been petitioned for leave to issue $150,000 additional water supply bonds. Wm. M. Stone is Water Comr.

HOLDEN, MASS.—Town has petitioned legislature for leave to borrow $15,000 for extension of water supply.

BRANFORD, CONN.—Referring to projected extension of water service of Branford Water & Lighting Co., at cost of $30,000, we are informed that contracts for pipe have been placed, and lists of specials, hydrants, valves, etc., were being made up. A. William Sperry, 82 Church St., New Haven, Conn., is Engr.

EAST GREENWICH, R. I.—East Greenwich Fire District has postponed further consideration of a water supply until May 8. In meanwhile it is said that East Greenwich Water Supply Co. will begin to improve its plant.

PROVIDENCE, R. I.—Council has passed resolutions authorizing Commissioner of Public Works to improve city water supply at cost of about $300,000. Work includes construction of additional water main from Sockanosset Reservoir, and construction of two additional filter beds at slow sand filtration plant.

ALBANY, N. Y.—Bill is before State Legislature authorizing the city to secure additional water supply at cost of $400,000.

SCHOHARIE, N. Y.—Bids are asked until Feb. 22 for the construction of a system of water-works. H. F. Kingsley, Village Clk. (Advertised, Engineering News.)

MEDINA, N. Y.—Village votes Jan. 31 on bonding for $81,000 to install new water-works.

BROOKLYN, N. Y.—Contract for laying high pressure water mains for fire service in this city has been let to JNO. J. CASHMAN, 44 Court St., Brooklyn, for $792,601. Bids for above work were opened Jan. 6 and are given under Contract Prices in our issue of Jan. 12.

BUFFALO, N. Y.—Col. Francis G. Ward, Comr. Pub. Wks., has recommended that legislature leave be obtained to make $500,000 bond issue for increasing city water supply.

GLENS FALLS, N. Y.—Village, according to reports, is to adopt general meter system at cost of $15,000.

NEWARK, N. Y.—N. E. Landon, Village Pres., writes us that they expect to buy present water-works plant. $50,000 bond issue was recently voted for that purpose. Improvements costing $15,000 were also proposed, according to press reports.

NEW YORK, N. Y.—Report of special commission, composed of William H. Burr, Rudolph Hering and John R. Freeman, recommends, among other things, the immediate construction of a reservoir at Cross River in the water shed to cost about $1,500,000 and the construction of another reservoir near Croton Falls, completion of this to be delayed until 1908. Cost of latter reservoir is set at $2,500,000. The report declares that this $4,000,000 expenditure should be provided for at once in order to guard the city against a water famine.

ROCHESTER, N. Y.—Rochester & Lake Ontario Water Co., G. K. M. Clarke, Gen. Mgr., Powers Bldg., Rochester, is reported to be considering extending its mains to towns east and west of this city, and in the near future construction of two more pumping stations.

ATLANTIC CITY, N. J.—Press reports state that plans have been perfected by the Water Department for laying new mains from city's source of water supply to concrete well basin. Concrete gate chamber with iron gates is also to be built.

BORDENTOWN, N. J.—City, according to reports, is to purchase plant of Bordentown Water Co. for $19,000.

GARFIELD, N. J.—Petition is to be circulated for city to construct new water-works. At election to be held March 11 matter will be voted on.

NEW PROVIDENCE, N. J.—Borough Council has entered into contract with Commonwealth Water Co., Summit, N. J., for extension of water mains up Springfield Ave., from South St. to Borough line.

LUMBERTON, N. J.—We are informed that Lumberton Light, Water & Sewerage Co. has filed articles of incorporation and as soon as a charter is obtained it will be ready for business. Company has authorized capital of $50,000. Estimated cost of water-works which it proposes to construct here (supply from Rancocos Creek) is $10,000. G. F. Reid is official in charge.

PATERSON, N. J.—Beaver Lake Co. has filed articles of incorporation. Company has capital of $50,000, and proposes to build and operate water-works and to supply electric power. Wayne Dumont and John A. Kane, Paterson, are interested.

CONNELLSVILLE, PA.—Referring to projected water system of Mountain Water Supply Co., S. M. James, C. E., Connellsville, writes us that the company has a force of men at work clearing the basin. The company is securing additional land and has already obtained sites for buildings, side tracks, etc. No contracts have been let as yet.

HARRISBURG, PA.—Applications for charters for 18 water companies, each capitalized at $5,000, have been filed with State Department. It is desired to secure water right along Juniata River in the counties of Blair, Huntingdon, Mifflin, Juniata and Perry. The incorporators are Howard Watkins and William Roth, of Philadelphia, and George M. Bunting, of Chester, Pa. This syndicate also controls the Mountain Water Supply Co., of Greensburg, Pa., which a few days ago increased its capital stock from $1,000,000 to $5,000,000. Charter applications have also been filed by a Harrisburg, Pa., syndicate, headed by Homer Shoemaker, for three water companies along the Juniata River in Huntingdon County.

CONEMAUGH, PA.—Mountain Crystal Water Co. has asked Borough Council for franchise to supply water to East Conemaugh.

SLATINGTON, PA.—Contract for drilling 1,600-ft. artesian well for Lizard Creek Development Co. has been let to R. J. HONGEN, Weissport, Pa.

BALTIMORE, MD.—Philadelphia Wrecking & Contracting Co., 123 West Saratoga St., Baltimore, Md., is reported to be in the market for rubble stone, crushed stone, lead, natural and Portland cement, terra cotta and cast-iron pipe, fire-brick, building brick, lumber, mill work, boilers, pumps, feed-water heaters and standpipe in connection with contract obtained for construction of water-works at Washington, Ga.

NORFOLK, VA.—It is stated that Fire Chief Kegebein will recommend installation of central pumping system for fire protection purposes. W. T. Brooke is Cy. Engr.

MANCHESTER, VA.—Engineers of Old Dominion Iron & Nail Works are reported at work on plan for supplying this city with water from the plant at present on Belle Island.

MANNING, S. C.—Town Council is to have surveys and estimates made for establishing water-works and sewerage.

TOCCOA, GA.—City is to have preliminary surveys made for water-works.

SELMA, ALA.—Purchase by city of local water-works is considered.

POPLARVILLE, MISS.—Town votes to issue bonds for establishing water-works.

BIENVILLE, LA.—City is negotiating for purchase of plant of Bienville Water-Works Co.

CHATTANOOGA, TENN.—Bill has been before Legislature providing for issuance of $700,000 of bonds for establishing or buying water-works in this city.

HUNTINGDON, TENN.—W. J. Holman has leased city water and light plant for a period of five years.

LOUISVILLE, KY.—Commissioners Central Kentucky Asylum for the Insane is stated to have let contract for construction of two reservoirs at the Asylum at Lakeland to LEWIS & KITCHEN, Chicago, Ill., for $25,500. Bids were opened Jan. 14.

CEDARVILLE, O.—Robert Wood is advocating installing water-works here.

CONTINENTAL, O.—Town Council has appointed committee to confer with Frank Koust, proprietor of local electric light plant, to determine if the city water-works can be run by him, in connection with his light plant.

TOLEDO, O.—We are informed that plans have not yet been prepared for new filtration plant for this city, to be used with old pumping station. Preliminary surveys, however, have been made. Capacity of filtration plant is to be 20,000,000 gallons. Low lift centrifugal pumps will probably be used, and will be driven by gas producer engines. About 800 ft. intake conduit, 800 ft. 42-in. force main, sedimentation basins, mechanical filters, clear water basins and 13,500 ft. of clear water conduit to present pumping station will be required. Estimated cost of work is $600,000 and bids will be received in about three months. F. I. Consaul is Ch. Engr., and Chas. S. Parmelee, 136 Liberty St., New York, is Consult. Engr.

ELMWOOD PLACE, O.—Council Water Committee is considering metering village water supply. Post Office, Cincinnati, O.

FOSTORIA, O.—Board Public Service is considering improvement of water supply by a direct connection with Portage Creek, and establishment of new filter bed.

YOUNGSTOWN, O.—Council will be asked to appropriate $27,000 for following supplies for water-works department: 197 water meters, from ⅝ to 4-in.; 900 tons cast-iron pipe, 4 to 30-in.; 20 tons special castings; 75 6-in. valves, 2 12-in. valves; 1 30-in. valve, 20 8-in. valves, 12 4-in. valves; 75 fire hydrants and 15 screw valve boxes. W. Hamilton, Supt. W.-W.; David Heinselman, Chn. Bd. Pub. Serv.

MORRISTOWN, IND.—Town Trustees are considering installing water plant on the reservoir system.

SHIRLEY, IND.—Local Commercial Club is advocating installation of water-works and electric light plant.

BLOOMINGTON, ILL.—Illinois Central Ry., according to reports, is to establish water-works here to cost $18,000.

JACKSONVILLE, ILL.—It is stated that Jacksonville Water-Works Co., whose incorporation was mentioned in our issue of Jan. 12, will expend about $250,000 on the improvement, going 18 miles from city for a supply. O. N. Gardner and E. M. Mackey, Jamestown, N. Y., are interested.

ROCKFORD, ILL.—It is stated that Frank J. Phinney, Supt. W.-W., in his annual report will recommend that city purchase 10,000,000-gallon pumping engine, and will also suggest building of power plant to run motors on wells now connected with air lift apparatus at pumping station.

DES MOINES, IA.—State Board of Control, according to reports, is to enlarge water system at Cherokee, at cost of $25,000.

CHARITON, IA.—Bids are reported asked until March 1 for construction and equipment of water-works for this place. Owen Ford, Engr., St. Louis, Mo.; B. R. Van Dyke, W.-W. Comr.

INDIANOLA, IA.—Plant of Indianola Water-Works Co has been transferred to company made up of J. H. Harlen and others and improvements are planned, it is reported.

DULUTH, MINN.—Citizens will vote on $140,000 bond issue for extension of water and gas mains to Park Point, and for the construction of an independent system on Duluth Heights, the construction of a supplementary reservoir in West Duluth, and a number of improvements in the pipes in the central part of the city.

HASTINGS, MINN.—O. F. Doyle, St. Cloud, Minn., is to prepare plans for water-works for this place.

ST. PAUL, MINN.—Water Board is urging $500,000 bond issue for permanent improvements in city water-works.

OSCEOLA, NEB.—Contract for standpipe for local water-works was let Jan. 10 to DRAKE, WILLIAMS, MOUNT CO., Omaha, Neb., for $4,377.

EXETER, NEB.—A $20,000 bond issue for putting in complete water-works system is to be voted on Feb. 14.

BILLINGS, MONT.—Company has been organized at Laurel with W. R. Westbrook, of Park City, Mont., Pres.; F. W. Schauer, Vice-Pres., and C. R. Buchanan, Secy., to extend the Yellowstone ditch and reclaim a large tract of valley land. Extension will cost about $20,000.

CASPER, WYO.—Kilpatrick Brothers & Collins Contracting Co., Beatrice, Neb., at $34,292, was low bidder Jan. 9 for construction of outlet tunnel and two vertical shafts for U. S. Reclamation Service. Itemized bids are given under Contract Prices.

CARTHAGE, MO.—It is stated that H. J. Green, Atty., representing a company of New York capitalists, will probably ask City Council for a franchise to build and maintain water-works in this city.

KANSAS CITY, MO.—Following bids were received Jan. 14 by Board Public Works, Everett Elliott, Secy., for construction and erection of 20,000,000-gallon pumping engine for Turkey Creek station: Allis-Chalmers Co., Chicago, Ill., (A) $93,700, delivered in 11 months, (B) $91,500, delivered in 11 months, (C) $89,700, delivered in 11 months, (D) $88,600, delivered in 11 months; Camden Iron Works, Camden, N. J., $128,500, delivered in 20 months; William Tod Co., Youngstown, O., (A) $114,180, delivered in 16 months, (B) $120,000, delivered in 16 months; Holly Mfg. Co., $148,700, delivered in 12 months. Contract awarded to WILLIAM TOD CO., on Proposal A.

CORTEZ, COLO.—We are informed that Montezuma Valley Irrigation District has voted bonds for $500,000 for constructing a system of works to consist of 2½ miles of main canal, 4,000 ft. of tunnel and about 40 miles of main laterals; also two reservoirs. Orson E. Stone is Pres.; George M. Longenbaugh, Secy., and W. H. Wigglesworth, Ch. Engr. Main office is at Cortez, Colo. Bids for construction will be called for soon.

MONTROSE, COLO.—City votes to issue $100,000 of bonds for construction of new water-works.

CORVALLIS, ORE.—A. J. Johnson, E. R. Bryson and Professor Skelton, of Oregon Agricultural College, are stated to have submitted proposition to Council for installation of mountain water system for city.

IONE, ORE.—The City Council is stated to have extended time for opening bids for construction of water-works system from Jan. 16, 1905, to Feb. 1, 1905. C. J. Fennington is Cy. Recdr.

PORTLAND, ORE.—Local reports state that Suburban Home Supply, Canal & Pipe Line Co. has been incorporated. Canals, a 60-in. pipe line, five reservoirs and lead pipes to underlie a large district will be constructed. Water will be obtained from the Sandy and Bull Run Rivers, Mt. Tabor, Montavilla, Russelville, Stewarts, St. Johns, Woodstock and Gresham will be supplied. Lafe Pence is interested.

ROSEBURG, ORE.—It is proposed to bond the city in sum not to exceed $200,000 for putting in municipal water system. H. Wollenberg, F. M. Beard, F. H. Churchill, I. Wollenberg are on Committee.

ST. JOHNS, ORE.—Press reports quote J. C. Scott, of the St. Johns Water Co., as announcing that the company will enlarge its plant early in the spring and will lay many thousands of feet of new mains. Mains will be laid during the winter.

TILLAMOOK, ORE.—City has disposed of $45,000 of bonds and will call for bids for installing gravity system of water-works. Plans and specifications were prepared by W. B. Chase, C. E., Portland, Ore.

ORANGE, CAL.—City votes to issue $50,000 of bonds for water-works purposes.

SAN FRANCISCO, CAL.—North Side Water Co. has been incorporated with $50,000 capital. John Richards, San Anselmo; W. D. Brent, Sausalito, and George Manuel, San Francisco, are interested.

SANTA ANA, CAL.—Ed. Tedford, Cy. Clk., is taking bids until Jan. 30 for purchase of $100,000 of municipal water-works bonds.

SANTA ROSA, CAL.—Norman S. Frost, Cy. Engr., of Petaluma, Cal., according to reports, is to make surveys for water system for this place.

WESTMOUNT, QUE.—Special Council Water Committee has reported in favor of renewing contract for water supply with Montreal Water & Power Co., on condition that they install filtration plant.

FORT ERIE, ONT.—Water-works and sewerage considered.

STRATHCONA, N. W. T.—Town may install water-works and sewerage.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

QUINCY, MASS.—Joint committee of council will consider question of $200,000 sewer loan. E. W. Branch is Engr. Sewer Board.

FITCHBURG, MASS.—Trunk sewer is contemplated. Legislature will pass upon question of its construction. Sewage disposal system will be begun soon if city is granted authority, and it will be completed within seven years. H. O. Sawyer is Mayor. D. A. Hartwell is Cy. Engr.

WEBSTER, MASS.—Sewer Board will have plans prepared for an outfall sewer that will empty into the Maanexit River, near Dudley. Charles Haggerty is Sewer Comr.

NEW ROCHELLE, N. Y.—Bids are asked by the Board of Sewer Commissioners until Feb. 23, instead of Feb. 15, as noted last week, for the construction of about 1,875 ft. of 30-in. submerged cast-iron pipe sewer under the waters of an arm of Echo Bay, the work including the construction of a sand catcher, rising well, and other appurtenances. Geo. W. Sutton, Chn.; James Knapp Wilkes, Engr. (Advertised, Engineering News.)

BOGOTA, N. J.—Bids are asked by the Road Committee, School Bldg., Larch Ave., until Feb. 14 for the construction of about 6,445 ft. of 8 to 24-in. pipe sewers and 23 manholes from the Hackensack River to the River Road, etc. (Advertised, Engineering News.)

ASBURY PARK, N. J.—Plans for septic sewer system have been prepared by Herbert M. Snow, of Snow & Barbour, Tremont Bldg., Boston. Estimated cost, about $50,000.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

BUTLER, PA.—City will vote on question of $65,000 bonds for paving and enlarging sewer system.

WASHINGTON, D. C.—Col. A. E. Randle, of Congress Heights, has asked the District Commissioner for an appropriation of $13,860 for a sewer system for Congress Heights. The amount requested is the estimated cost of the installation of sewerage in that suburb.

MACON, GA.—Sewer system is planned for [illegible]eville and Huguenin Heights. J. W. Wilcox is Cy. Engr.; William A. McKenna is Chn. Sewer Com.

PALATKA, FLA.—Specifications and bidding-sheet for sewerage construction are on file at New York office of Engineering News. Bids are advertised until Feb. 1 for about 11 miles of sewers.

GULFPORT, MISS.—The city will issue $20,000 of bonds for sewer system.

BATON ROUGE, LA.—It is reported that five miles of new sewers will be built this summer. R. Swart is City Engr.

TOLEDO, O.—Bids were received as follows on Jan. 12 by the Board of Public Service for constructing sewer No. 937 in southeast Toledo: O'Neill & Tansey, $1[illegible],015; O'Sullivan, Streicher & McKinney, $110,012, and [illegible]dette & Sheehan, $110,864. City Engineer's estimate, $9[illegible].

ST. BERNARD, O.—Bids are asked until Feb. 16 for constructing several sewers. J. A. Stewart, Traction Bldg., Cincinnati, is Engr. George Meyer, Clk.

LORAIN, O.—The city council has authorized the construction of a $45,000 storm-water sewer between Woodland Ave. and Black River.

SPRINGFIELD, O.—Council has authorized an election to vote on question of bond issue for new sewer system. Estimated cost, $335,000. John W. S. Riegle is Cy. Engr.

CHILLICOTHE, O.—H. M. Redd, Cy. Engr., writes us that contracts will be let soon for about 6,800 ft. of 12, 10 and 8-in. pipe sewers. Average cut, 12 ft. Estimated cost, $9,440.

NEW ALBANY, IND.—Contract for the construction of a complete storm and sanitary sewer system was awarded to P. G. McMERNEY & CO., Brownstone, Ind., at $207,310.

TERRE HAUTE, IND.—Contract was awarded to ROBERTS & CO. for constructing sewers on South First and South Third Sts., at $4,799. JESSE ROBERTSON, 629 Chestnut St., has contract for a sewer on North Seventh St., at $4,186.

RICHMOND, IND.—H. L. Weber, Cy. Engr., informs us that WM. REHLING & CO., 35 Terry St., Dayton, have contract for 2,300 ft. of 36 and 52-in. concrete sewers. Cost, $16,000.

HAVANA, ILL.—Bids are asked until Feb. 15, for constructing 1,616 ft. 42-in. brick sewer, of which 800 feet is tunnel work; 495 ft. 24-in. × 36-in. brick sewer, and 400 ft. of tile sewer. J. J. Donaldson.

DAVENPORT, IA.—Bids are asked until Jan. 31 for sewerage construction. Thomas Murray, Cy. Engr.

DAVENPORT, IA.—Bids are asked by Board Public Works until Jan. 31 for construction of about 500 ft. of 12-in. sewer. Thomas Murray, Cy. Engr.

ST. PAUL, MINN.—Bids are asked until Jan. 30 for construction of sewer in Summit Ave. John S. Grode, Pres. Bd. Pub. Wks.

SIOUX FALLS, S. DAK.—Iver Fanebust was awarded contract for stone sewer, at $3,292.

NORTH PLATTE, NEB.—At special election it was voted to issue $30,000 of bonds for new sewers.

SOUTH OMAHA, NEB.—Arnold C. Koenig, 514 Bee Bldg., Omaha, Neb., informs us that Andrew Rosewater, Cy. Engr. of Omaha, has been retained to report upon a comprehensive system of sewers for South Omaha. Cost, $250,000.

SOUTH ST. JOSEPH, MO.—Wm. H. Floyd, Jr., City Engr., of St. Joseph, is preparing plans for sewers for South St. Joseph. Bids probably will be called for in the spring on concrete and brick construction. Appropriation, $75,000.

KIRKWOOD, MO.—The question of disposing of the sewage of Kirkwood is reported under consideration. Chas. G. Recker is Mayor.

BEAUMONT, TEX.—CALLAGHAN & GRAHAM, Beaumont, are reported to have received the contract for the construction of sewer system, at $25,836.

AMARILLO, TEX.—Sewerage bonds have been sold and the contract let to the McQUARTERS PLUMBING & MACHINERY CO., of Hillsboro, Tex.

HOUSTON, TEX.—John W. Maxcy, Engr., Binz Bldg., informs us that bids received on Jan. 11 for sewer were rejected. New bids will be advertised.

DENVER, COLO.—Bids are asked by Board Public Works, G. E. Randolph, Pres., until 11 a. m., Jan. 28, for material and construction of sub-district sewers, manholes, etc., in Sub-District No. 14.

COLORADO SPRINGS, COLO.—The Grant-Midland Ave. trunk sewer will be built this year. It will be about 7,500 ft. long. E. W. Case is Cy. Engr.

NORTH YAKIMA, WASH.—J. C. Brooker, City Clk., states, according to report, that an election will be held this spring to vote on question of extending the sewer system. The proposed sewers will cost about $57,000.

SAN PEDRO, CAL.—Bids are asked until 8 p. m., Jan. 31 for constructing four sections of the Palos Verdes St. and Crescent Ave. outfall sewer. Bids will be received for section work and furnishing material, for section work without material, and for material alone. The following material will be required, for delivery f. o. b. San Pedro: 500 barrels cement; 40,000 hard-burned brick; 16 cast-iron manhole covers and frames to weigh at least 360 lbs.; 150 cast-iron manhole rungs, regulation type; 154 pieces 2 × 2 × ¼-in. of 5-ft. angle iron, 493 lbs.; 760 lin. ft. 2 × 3 × ¼-in. angle iron, 311 lbs.; 1,520 lin. ft. ⅜ × 2-in. strap iron, 3,876 lbs.; 462 field driven rivets, ⅜-in. round; 86 bolts, ½-in. round by 32 ins., both ends threaded, with washers and nuts; 86 bolts, ¾ × 25 ins., both ends threaded, with washers and nuts; 258 bars ¾-in. round steel, 32 ft. long; 2,262 ft. of ½-in. round steel bars, various lengths to 20 ft.; 473 bars, ⅜-in. round steel, 22 ft. long; 430 bars ⅜-in. round steel, 5½ ft. long; 1,100 lin. ft. of salt-glazed vitrified sewer pipe 10 ins.; 1,000 lin. ft. of salt-glazed vitrified sewer pipe 12 ins.; 5,200 lin. ft. of salt-glazed vitrified sewer pipe 14 ins., double strength; oakum, 10 bales of 50 lbs. each; cast-iron pipe 14-in. drain, 12 ft. long, to weigh not less than 1,000 lbs.; 12 Ys to connect with 10-in. pipe; 32 6-in. Ys for house connections; [illegible] Ys to connect with 12-in. pipe; 14 Ys to connect with 14-in. pipe. H. Stieglitz, Cy. Clk.

SAN FRANCISCO, CAL.—Local press reports state that bids will be received on March 6 for $2,573,800 bonds to be used as follows: Hospital, $250,000; sewer, $72[illegible]; school, $1,077,600; street improvements, $243,000; county jail and additions to the Hall of Justice, $278,400.

OCEAN PARK, CAL.—Special election will be held Jan. 30 to vote $20,000 of bonds for a sewer system and $5,000 for [illegible] apparatus. W. T. Gibbon is Engr. P. James, Cy. Clk. It is reported that Abbot Kinney has donated site for septic tanks for new system.

EUGENE, ORE.—It is stated that $50,000 of bonds will be issued for new sewers. Other bonds will be issued as follows: $100,000 for water-works; $100,000 for electric lighting, and $75,000 for gas plant.

GARBAGE DISPOSAL—STREET CLEANING

The names of parties awarded contracts are printed in capital letters.

LOWELL, MASS.—City Health Department has $10,000 at its disposal for purchase of new crematory. It is probable, however, that nothing will be done until spring.

ALBANY, N. Y.—Bids are asked by Bureau Contract and Supply, Isidore Wachsman, Clk., until Feb. 6, for removal of street dirt and dead animals.

NIAGARA FALLS, N. Y.—Board Public Works has reported to Council that six garbage wagons could be purchased for $1,500.

ATLANTIC CITY, N. J.—Sanitary Committee, Chas. W. Mathis, Chn., is reported to be calling for bids until Feb. 13 for collection of garbage. City already has contract with Atlantic Farms Co. for incineration of garbage.

PASSAIC, N. J.—Following bids were received by Council Committee on Streets, Jan. 13, for removing ashes and garbage for ensuing year: Kehoe Livery & Trucking Co. (present contractor), $7,386; Samuel B. Steinberg, $6,493.

CLEVELAND, O.—Two ordinances regarding garbage disposal have been before Council; one of these authorized Board Public Service to sell the by-products of the reduction plant, and the other authorizes the board to expend not to exceed $65,000 in enlarging, improving, equipping and furnishing the plant.

YOUNGSTOWN, O.—Board Public Service is reported to be considering rebuilding furnaces at garbage crematory on Cedar St.

CHICAGO, ILL.—Bids are asked by the Board of Public Works, Room 222, City Hall, until Feb. 16, for furnishing all the labor, materials, vehicles, tools, appliances, appurtenances and plants whatsoever, and doing the work necessary in and about the collection and disposition of garbage, refuse and ashes within the city limits. F. W. Blocki, Comr. (Advertised, Engineering News.)

DES MOINES, IA.—Council Committee, Aldermen Higgins, Fraley and Whitney, are stated to have reported in favor of establishment of municipal garbage crematory.

PORTLAND, ORE.—Board of Health, according to reports, is to ask Council for additional appropriation of $10,000, this and other money from the annual estimate for that department, to be used in repairing the old garbage crematory and for building a new one.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NASHUA, N. H.—Board Public Works is considering the paving of Main St. Est. cost, $14,000. E. J. Johnson is Cy. Engr.

CHELSEA, MASS.—Mayor Willard recommended in his annual message an expenditure of $40,000 for street improvements. Alfred C. Maggi is Cy. Engr.

SHARON, CONN.—Bids are asked by Board of Selectman until Feb. 4 for constructing a road. Jas. B. Wilbur, Chn.

ALBANY, N. Y.—Mayor has signed ordinance which provides for the extension of Manning Boulevard. Cost, $6,000.

BUFFALO, N. Y.—Bids are asked by Department Public Works until Feb. 1 for repaving portions of William, Eagle, Amherst and Park Sts. Francis G. Ward, Comr.

ROCHESTER, N. Y.—The Rochester Vulcanite Paving Co. was the lowest bidder and will probably receive contract for repairs to asphalt pavements this year. It was estimated that asphalt streets will need 1,600 sq. yds. of resurfacing and 300 sq. yds. of concrete. Bids were opened by Board of Contract and Supply Jan. 18. Edwin A. Fisher is Cy. Engr.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Feb. 1 for regulating, curbing and laying sidewalks on portions of Ashford and 77th Sts.: for regulating and paving with asphalt portions of Bristol and Chestnut Sts., and Park Place; also for constructing cement sidewalks on portions of 72d and 92d Sts.; engineer's est., 2,701 cu. yds. earth excavation, 14,505 sq. ft. cement sidewalk, 3,880 lin. ft. new curb stone, 15,460 sq. yds. asphalt, 2,631 cu. yds. concrete, 19,840 sq. ft. cement concrete sidewalks, etc.

FREEMAN, N. Y.—Mayor Block in his annual message recommended the paving of Broadway. Est. cost, $97,000.

ALBANY, N. Y.—It is reported that new bids will be received for grading, paving and laying sidewalks on South Pearl St.

NEWARK, N. J.—Jas. Owens, Engr., 196 Market St., writes that contracts for Telford paving on county roads have been awarded as follows: Pier Lane in Caldwell to FRANCISCO BROS., Little Falls, 4,400 cu. yds. excavation, 10,000 sq. yd. telford.; Franklin Ave. in Nutley and Belleville, to WRIGHT & LINDSLEY of Orange, for 10,000 cu. yds. excavation, and 12,610 sq. yds. telford; Bradford Ave., in Montclair and Verona, to OSBORNE & MARSELLIS CO., Montclair, for 44,700 cu. yds. excavation, and 13,325 sq. yds. telford; Wall St. and Stuyvesant Ave., in Vailsburg and Irvington, to LUDWIG BATT, South Orange, for 20,410 cu. yds. excavation, and 23,540 sq. yds. telford; South Orange Ave. extension, in Livingston, to WRIGHT & LINDSLEY, for 6,000 cu. yds. excavation, and 8,880 sq. yds. telford; road to Northfield, in Livingston, to WRIGHT & LINDSLEY,, for 11,440 cu. yds. excavation, and 15,730 sq. yds. telford; Mt. Pleasant Ave., in West Orange, to DONATO FUSCO, for 28,300 cu. yds. excavation and 8,880 sq. yds. telford.

ATLANTIC CITY, N. J.—Council has rejected consideration of bitulithic as a paving material for Atlantic Ave. and voted to use asphalt. It also rejected steel-bound concrete curbing in favor of granite. The McGovern Construction Co., Trenton, was lowest bidder for granite curbing, at $54,581. J. W. Hackney is Cy. Engr.

PHILADELPHIA, PA.—It is stated that the contract for repairs to county roads during present year has been awarded to E. H. VARE, for $120,000.

MEADVILLE, PA.—An ordinance providing for the paving of Park Ave., 3,000 ft., has been passed by Select Council. Cost, $30,000. W. A. Doane is Cy. Engr.

HARRISBURG, PA.—Contract for building state road in Chester County, a distance of 1,700 ft., has been awarded to Thos. E. O'Connell, of West Chester, for $3,014.

PITTSBURG, PA.—An ordinance has been passed which provides for the expenditure of $90,000 to be used in improving Central and Riverview Parks. E. J. McIlvaine is Dir. Dept. Pub. Wks.

WASHINGTON, D. C.—A bill has been introduced in the Senate providing for the widening of W St., N. W.

PETERSBURG, VA.—A bill has been introduced in the House providing for an appropriation of $60,000 to macadamize road leading from Petersburg to National Cemetery, a distance of about three miles. Robt. Budd is Cy Engr.

KINGSTON, N. C.—L. J. Newborne, Town Clk., writes us that the town of Kingston will as early as practicable give out contract for about 10,000 yds. of street paving.

AUGUSTA, GA.—It is reported that 10,000 sq. yds. brick paving will be laid on Eighth St. in the early spring. Nisbet Wingfield, Cy. Engr.

JACKSONVILLE, FLA.—Bids are asked by Board Public Works until Feb. 13 for grading approximately 37,800 sq. yds., and for furnishing and placing 21,100 lin. ft. stone curbing, and for laying 37,800 sq. yds. of vitrified paving brick. Philip Prioleau, Cy. Engr.

JACKSONVILLE, FLA.—It is reported that bids will be received by Board Public Works until Jan. 30 for paving and grading with vitrified brick on ten streets, about 40,000 sq. yds.

BATON ROUGE, LA.—It is stated that this city contemplates laying about 5,000 sq. yds. of asphalt or bitulithic pavement. R. Swart is Cy. Engr.

LEESVILLE, LA.—Bids are asked by J. J. Cryer, Pres. Police Jury, until Feb. 15 for grading 30 miles of public road. All bids must be read per mile, and be mailed to C. K. Oakes, Clk.

CLEVELAND, O.—It is stated that bids will be received by W. J. Springborn, Pres. Brd. Pub. Serv., until Feb. 1 for grading, curbing and paving with brick on about 20 streets and alleys. Plans and specifications on file at office of Chief Engineer.

SPRINGFIELD, O.—Geo. Kershner, Chn. Com. of Streets and Highways, is reported as stating that the paving of West Main St., South Spring St., South Fountain Ave. and West Columbia St., will probably be authorized by Council.

CINCINNATI, O.—Edwin Henderson, Cy. Clk., announces that the resolution to improve Second Ave. by grading, curbing and macadamizing has passed the Council.

TOLEDO, O.—F. J. Consaul, Ch. Engr., Brd. Pub. Serv., informs us that bids will be called for in about three or four weeks for paving Jefferson Ave., Water St. and Idaho St.

LORAIN, O.—It is reported that bids will be received by J. J. Mahoney, Cy. Clk., until Feb. 4 for furnishing labor and material for grading and draining Duane St.

ELYRIA, O.—It is announced by Frank R. Rouver, Cy. Clk., that the resolution declaring it necessary to repave Middle Ave. has passed the Council.

ORRVILLE, O.—Council has awarded contract for paving West Market St. to H. B. SHANON, City, for $22,372. Metropolitan brick, Berea curbing, slag foundation and cement filler will be used.

CINCINNATI, O.—It is reported that F. H. Kirchner is the lowest bidder, at $104,000, for paving several streets with bitulithic. Geo. F. Holmes is Clk. Bd. Pub. Serv.

FREMONT, O.—It is expected that Arch St. will be paved during the coming summer.

CHILLICOTHE, O.—H. M. Redd, Cy. Engr., informs us that plans and estimates are being prepared for paving several streets.

COLUMBUS, O.—Bids are asked by County Commissioners until Feb. 17 for $5,000 East Broad St. road improvement bonds. Jas. A. Lamp, Chn.

INDIANAPOLIS, IND.—J. Clyde Power, Park Engr., has submitted an estimate of cost of building Fall Creek Boulevard at $72,500. It is probable that bids will be invited so that work can commence in early spring.

TERRE HAUTE, IND.—Plans and specifications are being prepared by City Engineer Kidder for the improvement of Wabash Ave.

FORT WAYNE, IND.—It is stated that plans and specifications for paving about 25,842 ft. for this year have been completed by City Engineer Randall. Cost, $225,000.

FRANKLIN, IND.—Bids are asked by County Commissioners until Feb. 7 for constructing 31 miles gravel road in Johnson County. J. T. Stott, County Audr.

BROAD RIPPLE, IND.—Bids are asked by Board Town Trustees until Feb. 7 for laying cement sidewalks on portions of Shelby, Hancock and North Sts. John O. Brenneman, Clk.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., has reported an estimate of $66,210 for cutting down of West Bridge St. hill. In this is included $10,000 for concrete retaining walls. The engineer also estimates the cost of paving with brick West Bridge St., at $38,160.

CALUMET, MICH.—This city, it is reported, will expend $100,000 for street improvements during the coming year. The principal thoroughfares are to be paved and wooden sidewalks to be replaced with cement. Specifications are being prepared.

MICHIGAN CITY.—It is stated that the County Commissioners have awarded contract for macadamizing Reecke road to J. C. UILHELM, for $10,475.

ROCKFORD, ILL.—Local press reports state that considerable paving will be done here this spring. Edward Main is Cy. Engr.

FREEPORT, ILL.—A resolution providing for the paving of Liberty St. with brick has been passed by Board Local Improvements. Est. cost, $46,500. G. W. Graham is Cy. Engr.

HOUSTON, TEX.—Contract for paving Sampson St. was awarded to SUNDERMAN, DOLSON & CO., for $5,778.

OKLAHOMA CITY, OKLA.—The following paving contracts were awarded by City Council: Third St., asphalt, CLEVELAND TRINIDAD ASPHALT PAVING CO.; Reno Ave., brick, FULLER & HIPPLE; East Main St., East Grand Ave., and Oklahoma Ave., SOUTHERN IMPROVEMENT CO. These paving contracts will aggregate about $125,000. Work will be started in the spring. W. C. Burke is Cy. Engr.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Brd. Pub. Wks., until Feb. 4 for planking on several streets. Est. cost, $34,800. R. H. Thomson, Cy. Engr.

PORT TOWNSEND, WASH.—Bids are asked by Geo. H. Penrose, Q. M., U. S. A., until Feb. 9, for constructing cement walks, as approaches to buildings at Fort Worden and Casey.

OAKLAND, CAL.—Contract for laying cement sidewalks on Sixth St. was awarded to BLAKE & BILGER CO. F. C. Turner is Cy. Engr.

NEVADA CITY, CAL.—Board of Supervisors have taken favorable action on the proposition to construct a county road along what is known as Deer Creek route betwen Nevada City and Newton.

GRASS VALLEY, CAL.—Bids are asked by Board of Supervisors until March 1 for construction of a road. F. L. Arbogast, Clk.

SACRAMENTO, CAL.—Bids are asked until Jan. 30, 8 p. m., for resurfacing 12th St. with macadam. M. J. Desmond, Cy. Clk.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

FISH HOUSE, N. J.—C. B. Hatch, Camden, will have plans started at once for rebuilding a brick plant at this place.

EDDYSTONE, PA.—Contract for constructing structural shop for Belmont Iron Works Co. has been awarded to CHAS. McCAUL CO., 10 North Eleventh St., Philadelphia.

PHILADELPHIA, PA.—Midvale Steel Co., Nicetown, has opened bids for a machine shop.

BALTIMORE, MD.—Archer & Allen, Archs., are preparing plans for a five-story bakery for the American Bread & Pie Co.

HAGERSTOWN, MD.—The Crawford Automobile Co. will soon have plans started for a two-story addition to their factory.

BALTIMORE, MD.—The Steiner Mantel Co., Eighth St. and Fairmount Ave., Highlandtown, will erect an addition to its plant and increase capacity. Brick, mill construction, 3 stories, 60 × 127 ft. Cost, about $30,000.

PETERSBURG, VA.—August Andrea of Easton, Pa., contemplates erecting a silk mill here. Secretary Chamber of Commerce, can give information.

CORINTH, W. VA.—The Oakland Coal & Coke Co., care of Jacob H. Taylor, 345 North Charles St., Baltimore, Md., has invited bids or complete equipment for a coal mining plant.

MANNINGTON, W. VA.—The Mannington Forged Tool Co., capital $25,000, has been chartered here by Geo. W. Fowers, C. E. Joliffe, Z. W. Jones and others, of Mannington, to manufacture hand-forged tools.

HUNTERSVILLE, N. C.—N. C. Frazier, H. B. Sample and Neil Barnette contemplate establishing a woodworking shop here.

NEW BERN, N. C.—The New Bern Lumber Co. will erect a large double circular saw-mill at James City, at a cost of about $40,000. The authorized capital is $125,000.

ALEXANDER CITY, ALA.—G. W. Shealy will erect and operate a wood and repair shop.

HUNTSVILLE, ALA.—A canning factory will be established here at a cost of $22,000. J. R. Boyd can inform.

DECATUR, ALA.—Car wheel works will probably be located here. Secretary of Business Men's League can give information.

BIRMINGHAM, ALA.—The Dimmick Pipe Co. will enlarge and improve its plant.

LAKE PROVIDENCE, LA.—A. B. Sanders will erect a 25-ton ice factory here.

ORANGE, LA.—The Wood Distillate & Fiber Co. will erect and operate a plant to distill products out of pine logs, such as turpentine, wood, alcohol and other articles.

PONCHATOULA, LA.—J. W. Bradley will establish an excelsior and mattress factory at this place.

CLARKSVILLE, TENN.—A pickle-canning and willow ware factory will be established here by a company with $300,000 capital. M. A. Stratton can inform.

BEMIS, TENN.—Jackson Fiber Co. will erect an addition to its plant and double the capacity.

NASHVILLE, TENN.—The Horley Pottery Co., City, will erect a pottery in West Nashville at once.

MEMPHIS, TENN.—Russell Wooldridge and C. D. Voris, of Crawfordsville, Ind., and others contemplate establishing a $100,000 match factory in this city. Col. J. F. Peters can give information.

ERIN, TENN.—J. C. Hobbs and G. H. McAuley will erect a plant here for manufacturing a patent hay press.

KNOXVILLE, TENN.—The Proctor Furniture Co. is doubling its factory at a cost of $25,000 and will purchase the following machinery: Feed water heater, blowers, pumps, dry kiln, blow piping exhaust, wood-working machinery, belting and shafting, pulleys and hangers and freight elevator. Previously reported.

CLEVELAND, TENN.—D. J. Spurling, of New River, Tenn., will establish a broom factory here.

TRENTON, TENN.—E. A. Wade contemplates erecting an excelsior mill here in the near future.

NASHVILLE, TENN.—The National Casket Co. will erect a dry kiln at a cost of $5,000.

LORAIN, O.—It is reported that plans have been completed for 16 additional buildings for new tube mills here. The new mills will include a galvanizing department and mills for the manufacture of wrought iron pipe.

MIDDLESBORO, KY.—The plant of the Middlesboro Novelty Wood Works and planing mill was destroyed by fire.

EDINBURG, IND.—A new canning factory will be erected in this place. Town Board can give information.

KEMPTON, IND.—A company has been formed to build a canning factory here. Directors: T. F. Lindley, C. V. Voorst and R. E. Resseler.

INDIANAPOLIS, IND.—Levy Bros. & Co. have purchased a site at Ohio and Senate Aves., upon which to erect four-story printing plant in the spring.

MARINETTE, WIS.—It is reported that a large paper mill is to be erected here in the spring by a company with $500,000 capital. S. Du Quaine, of Coleman, can inform.

OMAHA, NEB.—The following bids were received by Board Public Works for building of a municipal street repair plant: Star Machine Works, $7,500; Toledo Construction & Supply Co., $8,750, portable plant, $8,520; Iroquois Iron Works, Buffalo, N. Y., $14,635; F. D. Cummer & Son, Cleveland, O., $9,850; Geo. Adgate, Omaha, Neb., $10,000. Andrew Rosewater is Cy. Engr.

KANSAS CITY, MO.—The Robinson-Harrison-Thompson Implement Co. has been chartered with $15,000 capital. Incorporators: I. Pearson, M. L. Johnson and Z. W. Miller, of Kansas City, and others.

KANSAS CITY, MO.—The K. C. Window Shade Co. has been chartered to manufacture window shades. Capital stock, $100,000. Incorporators: Wm. R. Haes, of New York; Wm. H. Lyon, of Meriden, Conn.; T. D. McChesney, of New York; W. F. Uarkes, of Meriden, Conn.; O. Whitcomb, of Minneapolis, Minn.

ST. LOUIS, MO.—The Crane Co. will erect a factory building at 36-38 South 16th St. Cost, $8,000.

LITTLE ROCK, ARK.—A hardwood factory is to be established here. Mercantile Trust Co. can give information.

McGEHEE, ARK.—The Chickasaw Cooperage Co., of Memphis, Tenn., will erect a cooperage plant here.

PALESTINE, TEX.—A broom factory will be established here. Wm. Branagan can inform.

GALVESTON, TEX.—S. Fridner and Michael Tack will establish a cigar factory in this city.

FORT WORTH, TEX.—It is reported that Armour & Co., of Chicago, Ill., contemplate erecting a canning factory and glue plant here.

HASSE, TEX.—H. K. Knight, of Bluffdale, will erect a cotton-gin here. J. Hardin can inform.

HOUSTON, TEX.—The Houston Hat Co. will add new machinery and increase the capacity of its plant.

DALLAS, TEX.—The Oriental Hotel Association will erect a brick laundry at a cost of $15,300.

HOUSTON, TEX.—A new company has been organized to erect a rice mill here and a charter will be applied for within a few days. It is proposed to spend between $60,000 and $75,000 on the mill.

OKEENE, OKLA.—J. E. Levers, of Enid, is at the head of a company that will put in an ice and electric light plant.

HUGO, IND. T.—Hodge & Hunt, of Bokhama, Ind. T., will erect a saw mill with a daily capacity of 50,000 ft. of lumber.

SELMA CAL.—The California Grape Syrup Co., a new corporation organized in San Francisco, with W. A. Woollever of this city at its head, expects to locate a syrup factory here in the near future. Capital, $300,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

PILES.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Feb. 21 for furnishing yellow pine or Douglas fir piles.

STEAM VESSEL.—Seattle, Wash.—Bids are asked until Feb. 8, for construction complete of steam vessel. Capt. F. A. Grant, Q. M., U. S. A.

HYDRAULIC DREDGE.—Toronto, Ont.—Bids are asked by Mayor Thomas Urquhart until Feb. 7 for construction of hydraulic dredge, complete.

FIRE HOSE.—Wilmington, N. C.—Bids are asked by Fire Committee, P. Q. Moore, Chn., until 8 p. m., Jan. 31 for furnishing 1,000 ft., 2½-in. cotton fire hose.

DITCH.—Lodi, O.—Contract for excavating ten-mile ditch from Lodi to Kilbuck River is stated to have been let to T. H. WATSON, Minerva, O., for about $20,000.

REPAIRING DREDGE.—Astoria, Ore.—Contract for repairing Columbia Bar dredge "Chinook" has been let to RISDON IRON WORKS, San Francisco, Cal., for $21,310.

EXCAVATION.—Seattle, Wash.—Contract for about 75,000 cu. yds. earth excavation for Central Market Co. has been let to INTERNATIONAL CONSTRUCTION CO., for $25,000.

PIER.—Atlantic City, N. J.—Local capitalists have secured options on a site, and it is stated that a new steel pier will be built this spring in the Chelsea section at a cost of $500,000.

FIRE HOSE.—Grand Rapids, Minn.—Bids are asked by J. S. Cole, Village Recdr., until 8 p. m., Jan. 30 for purchase of 500 ft. hose, two shut-off nozzles and one hose-coupling expander.

LEVEE WORK.—New Orleans, La.—Contract for 100,000 cu. yds. levee enlargement work on Melville Levee, 30 miles below Delta, has been let to DONOVAN & DALY; bids opened Jan. 10.

STEAMER.—Point Richmond, Cal.—Contract for building river steamer, for Santa Fe Co., to be 175 ft. long, 48 ft. beam and 12 ft. deep, to cost $52,000, has been let to C. Y. FOSTER, San Francisco, Cal.

WHARF WORK.—San Francisco, Cal.—Bids are asked until Feb. 16 for replanking and repairing wharf at Presidio of San Francisco, including cluster, spring and fender piles. Wm. S. Patten, A. Q. M., G.

ELEVATOR.—Washington, D. C.—Bids are asked by James Knox Taylor, Supervising Arch., until Feb. 4, for installation of electric passenger elevator in U. S. Custom House and Post Office at Nashville, Tenn.

EMBANKMENT.—San Francisco, Cal.—Bids are asked by California Debris Commission, Capt. Wm. W. Harts, U. S. Engrs., Secy., until Feb. 17, for constructing embankment near Baguerre Point, Yuba River, Cal. (Advertised, Engineering News.)

TUBULAR BOILER.—Asbury Park, N. J.—Bids are asked by the Department of Water and Sewers until Feb. 13 for furnishing and erecting a 200-HP. internal furnace tubular boiler. John L. Coffin, Supt. (Advertised, Engineering News.)

WINDOW FRAMES AND SASH.—Washington, D. C.—Bids are asked until Feb. 23 for cast-iron or filled sheet copper window frames and sash for buildings, Army War College. Capt. John Stephen Sewell, Engrs. (Advertised, Engineering News.)

AIR BRAKE EQUIPMENT.—Washington, D. C.—Westinghouse Air Brake Co., Pittsburg, Pa., was only bidder Jan. 18, for furnishing Isthmian Canal Commission with air brake equipment, its bid being $10,565 for Class 1 and $8,770 for Class 2.

EXCAVATING.—Washington, D. C.—Bids are asked until Feb. 4 for excavations incident to the construction of an office building for the U. S. Senate on Square 686. Elliott Woods, Supt. U. S. Capitol Building and Grounds. (Advertised, Engineering News.)

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Feb. 21 for furnishing at navy yards, Mare Island, Cal., and Puget Sound, Wash., machine tools as follows: Futtock bevel band saw machine, steel plate gate shear, drill press, crank shaper and screw-cutting lathe. H. T. B. Harris, Paym. Gen. U. S. N.

DREDGING.—Detroit, Mich.—Specifications for dredging in lower Detroit River may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by Lt.-Col. Chas. E. L. B. Davis, U. S. Engrs., until Feb. 16, as advertised in Engineering News.

RIVER FRONT IMPROVEMENTS.—New York, N. Y.—Board of Estimate has granted Maurice Featherson, Comr. of Docks, $3,000,000 for improvement of the river front. Most of the money will be spent on the extension of piers and on the improvement of the Chelsea section of docks.

PORTLAND CEMENT, BROKEN STONE, ETC.—Newport, R. I.—Bids are asked until Feb. 23 for furnishing and delivering Portland cement, broken stone, screenings and sand at Boston Neck and Fort Adams, R. I. Lt.-Col. J. H. Willard, U. S. Engrs. (Advertised, Engineering News.)

PLEASURE RESORT.—Los Angeles, Cal.—Pacific Railway Amusement Co., has ben incorporated with $100,000 capital, and proposes, it is stated, to construct large pier, casino and bath house at Alamitos Bay. G. E. Pillsbury, Ch. Engr., Pacific Electric Ry. Co., Los Angeles, Cal., is interested.

DREDGE.—St. Louis, Mo.—Plans and specifications are on file at office of Engineering News, 220 Broadway, New York, for construction of self-propelling hydraulic dredge and ponton pipe line. Bids are asked by Capt. Wm. B. Ladue, U. S. Engrs., until March 17, as advertised in Engineering News.

WHARF, TRESTLES.—Vancouver, B. C.—Canadian Pacific Ry., is stated to be projecting construction of jetty wharf at this place to cost $250,000. Provision is also to be made for additional tracks and trestles along wharf front to cost $120,000 additional. F. F. Busteed, Winnipeg, Man., is Asst. Ch. Engr.

LOCK.—Cincinnati, O.—Bids are asked until Feb. 25 for building Lock No. 1 on Tug Fork, and Lock No. 1 on Levisa Fork, of the Big Sandy River, about four and eight miles, respectively, above Louisa, Ky. Lieut.-Col. Ernest H. Ruffner, Engrs., Room 415, Custom House. (Advertised, Engineering News.)

TELEPHONE SYSTEM.—New Orleans, La.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until Feb. 18 for installing automatic telephone system at Naval Station, New Orleans, La. $2,600 is available for the works. Specifications are on file at office of Engineering News, 220 Broadway, New York.

DREDGING.—New Orleans, La.—Bids are asked until Feb. 18 for dredging a channel near the west shore of Sabine Lake, connecting the Sabine and Neches Rivers with Taylor's Bayou, Texas, and for constructing creosoted wooden revetment. Capt. J. F. McIndoe, Engrs., 32 Prytania St. (Advertised, Engineering News.)

PIERS.—New York, N. Y.—Bids are asked by Commissioner of Docks, Pier A, Battery Pl., until Feb. 1 for furnishing all the labor and materials required for preparing for and building a new pier, with appurtenances, at foot of East 102d St., Harlem River. Also for pier at foot of East 108th St., Harlem River. Maurice Featherson, Comr.

SUBWAY, ETC.—Pittsburg, Pa.—H. C. Frick and associates are stated to have completed plans for construction of six-mile subway from the center of this city to East Liberty for the Pennsylvania R. R., the Pittsburg terminal to be a $7,000,000 skyscraper, which will be built on site of St. Paul's Cathedral. The plans are said to contemplate an outlay of about $50,000,000.

DRAINAGE CANAL.—The Trustees of Sanitary District of Chicago, Z. R. Carter, Pres.; Isham Randolph, Ch. Engr., on Jan. 11 adopted the plan of the proposed Calumet-Sag Channel for drainage of the Calumet District. The channel is to be of the same general form as the Main Drainage Channel, save that the width at the bottom will probably be 90 ft. instead of 160 ft. The part through rock will be rectangular in form with concrete walls from the natural rock surface. Through the earth section the bottom width will be 70 ft., with side slopes of 3 to 5, and the depth will be sufficient to give 22 ft. of water. The estimated cost is $12,000,000.

DRAINAGE DITCH.—Bloomington, Ill.—We are informed that Commissioners of Green River Special Drainage District have obtained leases for about one-half the entire right of way for projected drainage ditch. They have completed the classification of the lands for assessment purposes and will have a hearing before the Henry County Court at Cambridge, Ill., on Feb. 6 for the purpose of having the court confirm the classification. It is hoped to be able to call for bids for the work about March 1. The estimated amount of excavation is 4,437,577 cu. yds., and estimated cost of entire work is $420,006. A. H. Bell, Bloomington, is Engr. This work was mentioned in our issue of Jan. 12.

SWITCHBOARD.—Washington, D. C.—Following bids were received Jan. 21 by Bureau Yards and Docks for a direct-current switchboard at Navy Yard, Washington: Arthur Frantzen, 277 Dearborn St., Chicago, Ill., $17,654, $14,539; The H. O. S. Engineering Co., 16-22 Boyden Pl., Newark, N. J., $13,645, $14,895; Walker Electric Co., Inc., 2318 Noble St., Philadelphia, Pa., $14,370; Western Electric Co., 463 West St., New York, $13,000; General Electric Co., Schenectady, N. Y., $11,979; Southern Electric Co., 423 Calvert St., Baltimore, Md., $15,204, $14,519, $10,999; Albert & J. M. Anderson Co., 289 A St., Boston, Mass., $13,530; The Cutter Electrical & Mfg. Co., 19th and Hamilton Sts., Philadelphia, Pa., $14,975; National Electrical Supply Co., 1330 New York Ave., Washington, D. C., $19,000, $17,900.

EXPLOSIVES.—Washington, D. C.—Following bids were received Jan. 16 by Isthmian Canal Commission for furnishing dynamite and explosives; (1) 10,000 cases 75% nitro-glycerine dynamite; (2) tape fuse, caps and platinum fuses; (3) saltpeter, blasting powder; (4) electric battery: Laflin & Rand Powder Co., New York, (1) $71,250, (2) $1,711.72, (3) $950, (4) first item $97.50, second $130; total, $74,041.72; Rend Rock Powder Co., New York, (2) $1,828.30, (4) first two items $37.50, three items $168.75; Aetna Powder Co., Chicago, Ill., (1) $76,250, (2) $1,722.68, (3) $1,050, (4) for two No. 3 machines, $40; California Powder Works, San Francisco, Cal., (1) $81,875, (2) $1,779.42, (3) $975, (4) item 1, $42; 2, $135; total, $84,809.42; New York Powder Co., New York, (1) $73,900, (2) $1,781.01, (3) $1,010, (4) first item $34.30, second $102.90; total, $76,828.21; Giant Powder Co., San Francisco, Cal., (1) $83,125, (2) $1,832.95, (3) $1,050, (4) first item $40, second $120; total, $86,167.50; E. I. Dupont Co., Wilmington, Del., (1) $73,250, (2) $1,742.94, (3) [illegible] 75, (4) first item $33.25, second $99.75; total, $76,100.94 [illegible] alifornia Cap Co., San Francisco, Cal., (2) $1,761.50, [illegible] first item $39.68, second $116.34.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

DOCKS, ETC.—Port Chalmette, La.—The contract for construction of terminals at this place for New Orleans Terminal Co., mentioned in our issue of Jan. 12 [illegible] let to James Stewart & Co., will require among other things construction of a slip from the Mississippi, 300 ft. long and 1,800 ft. wide, capable of giving a draft of 30 ft. at lowest stage of river. Over 800,000 cu. yds. of material will be excavated and 100,000 cu. yds. of concrete will be used in construction of 54-ft. wall, which will be 20 ft. wide at the base. For a foundation 100,000 piles each 80 ft. long will be driven. On each side of the slip warehouses will be erected, one of these being two stories high and the other one story high. Both will be constructed of steel and will require about 5,000 tons of structural material. Included in the work will be a fire protection system. A steel elevator capable of holding 1,000,000 bu. of grain will be erected in connection with the slip, at a cost of $1,000,000. A passenger station will also be erected. The general scheme of the terminals was designed under the direction of A. M. Stewart, financial head of the company, and the work will be done under direction of J. C. Stewart. The New Orleans, La., office of James Stewart & Co. is in the Godchaux Bldg.

DOCKS AND PIERS.—Baltimore, Md.—We have received the following information concerning the projected construction of docks and piers by this city: "The conflagration of Feb. 7 and 8, 1904, cleaned out practically all buildings and other improvements on the Harbor Front between Light St. and Jones' Falls, south of Pratt St. The system of piers and docks then existing was a relic of olden times, when a 500-ton vessel was considered a very large vessel. As can be imagined such a system was entirely inadequate to meet the demands of the present day. All the lands, piers and docks in this district were under private or state ownership. Taking advantage of the situation and recognizing the importance to the commercial interests of the city of the adaptation of this portion of the harbor front to the requirements of today, the city applied for and received from the General Assembly of the state authority to borrow $6,000,000 to be used for the rehabilitation of the streets, pavements, etc., in the burnt district, and the construction of a new system of docks and piers, including the purchase of all property necessary for this purpose. There will be 22 ft. of water in docks at low water, about 11,000 lin. ft. of wharfage room, and about 12,000 lin. ft. of retaining wall and 40 acres of dock area. The foundations of retaining walls will be constructed to admit of depth in docks to be increased to about 25ft." N. H. Hutton is Harbor Engr.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

POWER PLANT, RAILWAY.—Cuba.—Compania Electrica de Santiago has been organized in Santiago de Cuba with a capital stock of $300,000 and an authorized bond issue of $300,000 additional. Jose Marimon is Pres., and Eduardo J. Chibas, Vice-Pres. and Managing Director. The company operates under a concession given by the president and secretary of government of the Republic and a charter granted by the municipality of Santiago de Cuba. The company proposes to build immediately a plant to supply light and power to private consumers, and later to construct a street and suburban railway. The following contracts have been let: To the BABCOCK & WILCOX CO., New York, for supplying three boilers of 500 HP. and one steel smokestack, 110 ft. high; BUCKEYE ENGINE CO., of Salem, O., for supplying two stationary engines of 235 HP. each; GENERAL ELECTRIC CO., of New York, for supplying all the electrical machinery necessary for the equipment of the plant.

BRIDGE.—Manila.—We are informed that the following bids were received Dec. 1 for construction of Ayala Bridge over the Pasig River, Manila, the bid of the ATLANTIC, GULF & PACIFIC CO. being accepted; proposals were received for (a) furnishing materials and erecting bridge complete and ready for traffic; (b) furnishing materials on the wharf at Manila: Clinton Bridge & Iron Works, (a) $149,000, (b) $92,000; Milliken Bros., (a) $110,900, (b) $65,800; Penn Bridge Co., (b) $57,480; King Bridge Co., (b) $60,100, alternate plan, (b) $47,600; Atlantic, Gulf & Pacific Co., (a) $64,863; J. G. White & Co., (a) $85,000, (b) $45,000; H. W. Peabody & Co., (b) $45,650; Fred. Wilson & Co. (English design), (b) $105,000; Castle Bros., Wolf & Sons, (b) $42,075, alternate designs, (b) $57,940, $69,115, $80,730; Finley & Co., (b) $45,250; Holiday, Wise & Co., (a) $94,500, (b) $50,500, alternate designs, (a) $105,500, $185,500, (b) $61,500, $120,500; Germann & Co., (b) $54,600, alternate designs, (b) $58,200, $63,200; Froelich & Kutter, (b) $45,900, alternate designs, (b) $46,100, $46,550. Designs and proposals were received from England, France, Germany and Belgium, beside those from the United States. The material is to be furnished by the AMERICAN BRIDGE CO., through the U. S. Steel Products Export Co. J. F. Case is Cy. Engr.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

SUGAR MILL.—Michoacan.—Geo. S. Herbert, of Celaya, Guanajuato, proposes to build a sugar mill on his plantation in the state of Michoacan, which he owns.

HOTEL.—Torreon, Coahuila.—Julio Doucet, of the Francia Hotel, in Torreon, is reported to have decided to build a modern hotel, to cost at least $100,000.

MINING MACHINERY.—Guerrero.—Considerable mining machinery will be ordered for the Poder de Dios mine, in the state of Guerrero. J. E. Swain, City of Mexico, is interested.

STAMP MILL.—Guadalupe y Calvo.—Rosario Mining Co., of Guadalupe y Calvo, state of Chihuahua, is to have 40 stamps added to its mill. J. A. Peabody, of Fort Worth, Tex., is Supt. of the mine.

LUMBER MILLS.—Chilpancingo, Guerrero.—It is announced that an English syndicate which owns a tract of 250,000 acres of timber land in this state will erect large lumber mills. J. C. Hodgson is Mgr.

BUILDING ADDITION.—Guadalajara.—Fortoul, Bec & Co., of this city, will erect a large addition to the building known as Las Fabricas de Francia. Charles L. Strange, Arch., has prepared the plans.

WATER POWER.—Vera Cruz.—A concession has been applied for by Manuel Alonzo, of the city of Vera Cruz, to divert water from the Antigua River for motive power, at a point about 30 kilometers from Vera Cruz.

MINING MACHINERY.—Jalisco.—It is proposed to install some new and modern machinery in a concentrating plant at the Agua Blanca copper mine, in the state of Jalisco. The mine is owned by the Dwight Furness Co., of Guanajuato, state of Guanajuato.

MINING MACHINERY.—Tlacolula, Oaxaca.—A 25-ton Bri[illegible] mill is to be erected at Tlacolula by the Compania Compradora y Beneficiadora de Metales de Tlacolula. C. P. M[illegible]a and A. L. Charlot are part owners of the mine.

RAILROAD.—City of Mexico.—It is stated that management of National R. R. of Mexico has decided to extend the International line from Tepehuanes to Guanacevi to afford an outlet for the mines in Guanacevi District. R. T. MacDonald, City of Mexico, is Ch. Engr. National R. R.

CORDAGE PLANT.—City of Mexico.—The Rio Tamasopo Sugar Co., which is composed of capitalists of Indianapolis, Ind., proposes to erect a large plant for the manufacture of ropes, sacks, bags, etc., from the fiber of the lechuguilla plant. Geo. D. Coleman is in charge of the property.

RAILROAD.—Torreon.—F. H. Hobart, manager of a zinc smelting plant at Gas, Kan., is stated to be projecting construction of a railroad from Torreon to Pelaya, the center of a rich mining district, and thence to a connection with the Western Railway of Mexico and on to the seaport of Altata.

STEAM LAUNDRY.—Guadalajara, Jalisco.—Concession for a steam laundry, application for which was made some time ago, by A. S. Bustamente and Dr. M. J. Gavin, has been granted by the State Government. A year is granted to commence operations. The latest American machinery will be installed.

RAILWAY.—Jalisco.—An El Paso, Tex., report states that a Mormon syndicate headed by W. J. Young, son of Brigham Young, has obtained a concession from the Mexican Government for the construction of a railroad northward from Jalisco to Topolobompo and to connect with El Paso & Sierra Madre Ry.

IRRIGATION SYSTEM.—Guadalajara.—Mexican Congress has approved the concession granted by the Federal government to Jose de Landero y Cos, as President of the Magdalena Lake Irrigation Co., for construction of a large irrigation system in this state. The waters of Lake Magdalena will be utilized for the purpose.

ELECTRIC POWER.—City of Mexico.—H. C. Campbell, of Portland, Ore., Gen. Mgr. of the Columbia River & Northern Ry. and the regular line of steamships, has been in Mexico, with view to finding a suitable location to develop electrical power and to interest capitalists of his state in a project of furnishing power to run a street car system.

MINING MACHINERY.—Jalisco.—Experiments as to the best methods of treating the ores from the Santo Domingo mine, at Etzatlan, state of Jalisco, are being made, and as soon as a process is decided on a mill of large capacity will be erected. The mine has recently been acquired by an American company. Address the general manager at Etzatlan, Jalisco.

RAILROAD.—City of Mexico.—It is reported that A. E. Stilwell, Kansas City, Mo., Pres. of Kansas City, Mexico & Orient R. R., has acquired the concession which Juan Ochoa Ramos recently obtained from the Mexican Government to build and operate a system of railroads in the State of Mexico and in the Federal District. Granting of this concession was mentioned in our issue of Dec. 15.

RAILROAD, COPPER MINES.—Mexico.—James M. Hamilton has returned to Caderyta Estado de Gueretaro, Mex., from a reconnaissance for a railroad route to the country of the El Doctor Mine of the New York Development Mining Co. Mr. Hamilton made some interesting copper discoveries while in the Mountains and would be glad to take any interest with parties who would furnish money for development purposes.

WATER POWER DEVELOPMENT.—Tlalnepantla.—San Ildefonso Mfg. Co., owner of San Ildefonso woolen factory, situated about 20 kilometers from this place, which has been using 1,500 liters of water per second for motive power from the Monte Alto River, has applied for permission to use 1,500 liters per second more to increase the power for additional machinery required for its growing business, which is mainly the manufacture of blankets.

IRRIGATION, ETC.—Durango.—Charles T. Moss, of Boston, Mass., has arranged for the purchase of 50,000 acres of land in the northwestern part of the state of Durango. A company to exploit the property will be organized, and offices opened in Boston. A large irrigation system is projected, also the construction of wagon roads, and a large saw mill will be erected. The company to be known as the New England Colonization & Development Co. will be capitalized at $100,000.

RAILWAY EXTENSION.—Durango.—Location surveys are now under way for projected extension of Mexican International R. R. from Durango to Mazatlan. The distance is over 400 kilometers and the permanent line is stated to have been located for about 300 kilometers. It is expected that location work will be completed in May, but it will probably be several months later than that before construction work is commenced. A route has been obtained giving a 2% grade. R. Johnson, Durango, is Asst. Ch. Engr.

RAILWAY.—Jalisco.—It is definitely announced that the Mexican Central Railway Co. has purchased the railway from Colima to Manzanillo, 90 kilometers long, owned by the Mexican National Construction Co., and that it has been decided to construct the line from Tuxpan to the city of Colima, a distance of about 60 kilometers. The line from Colima to Manzanillo is narrow gage, and it will be changed to standard gage, to conform with the Central lines. Lewis Kingman, City of Mexico, is Ch. Engr., Mexican Central Ry.

MINING MACHINERY.—Chihuahua.—The San Francisco del Oro Mines, Ltd., of 65 London Wall, London, England, owners of the San Francisco del Oro mine, located near the town of Santa Barbara, state of Chihuahua, propose to erect a suitable plant to treat the ores at the mine. Probably it will be wet concentration, magnetic separation, the slimes and tailings then to be mixed with siliceous ores and treated by lixivation. A railway to connect with either the Parral and Durango or the Mexican Central Railway is, also, contemplated. The Earl of Dengigh is president of the company and James E. Hyslop is Gen. Mgr.

FOREIGN CONTRACTS—EXPORT NEWS.

The names of parties awarded contracts are printed in capital letters.

FENCING.—South Africa.—Contract for government fencing in Transvaal colony has been let to A. & J. MAIN & CO., London, England.

TRAMWAYS.—England.—Corporation of South Shields is stated to be receiving tenders until Feb. 20 for permanent way construction, supply and laying of conduits and cables, overhead equipment, etc., of its projected tramways.

BRIDGE.—India.—Tenders are asked by E. Grant Burls, Director-General of Stores, India Office, Whitehall, S. W., London, England, until Feb. 14 for supply of Khushalgarth Bridge, comprising one cantilever span of 471 ft. and one anchor span of 303 ft.

ELECTRIC LIGHTING, WATER SUPPLY, ETC.—South Africa.—Town Council of Heidelberg, in the Transvaal, is considering making loan of $500,000 for various improvements, to include electric lighting, water supply, street making, bridges and public buildings.

ELECTRIC TRAMWAYS.—England. — Corporation of Great Yarmouth, W. Edgar Stephens, Town Clk., is asking bids until Feb. 2 for supply and delivery of tramcars, complete with motors, controllers, trolleys, etc.; also for supply and delivery of steel poles, trolley wire, insulators, feeder and section pillars, etc.

TRAMWAY.—South Africa.—It is proposed to introduce a bill in Legislative Assembly of Natal, to authorize the construction of tramway from northern boundary of Borough of Durban to point on Prospect Hall Estate, County of Victoria, with powers to generate electric current and to transmit same either along route of said tramway or elsewhere in County of Victoria.

DOCK, RAILWAY.—England.—Directors of North-Eastern Railway Co. have inserted in their General Powers Bill for next session power to raise $3,750,000 additional capital, which will be principally required for a new dock at Hartlepool and a pier on the foreshore of the River Humber, in connection with which a new railway, nearly 5½ miles in length, is proposed to be constructed.

ROAD SCRAPERS.—Germany.—Frank S. Hannah, U. S. Consul at Magdeburg, Germany, has received an inquiry for American road scrapers—their cost, process of manufacture, utility, etc., and any matter in the shape of announcements, catalogues, etc., sent to him will be delivered to the proper dealers in such implements at Magdeburg. The price quoted should be f. o. b., New York.

RAILWAY.—Portugal.—It is announced that the Government intends to construct a railway in Northern Portugal between Regoa and Chaves, a distance of about 40 miles. Construction work on the new line is to begin next June. Information can probably be obtained by addressing "O Presidente do Concelho d'Administracao dos Caminhos de Ferro do Estado Ministerio das Obras, Publicas, Lisbon, Portugal."

TRAMWAY EXTENSION. — Siam. — Shareholders of Siamese Tramway Co., Ltd., are stated to have authorized increasing capital stock of company by $600,000 for the following purposes: To extend the Bangkok City scheme, 3¼ miles; to construct an electric tramway on the west side of the river, 6¼ miles long; to construct a steam tramway from the company's terminus at Samsen to Pakret, a distance of 12½ miles.

TRAMWAY.—South Africa.—A project for constructing a six-mile electric, steam or oil-driven tram line from Hillarys, a station on the Natal main line, to the Bellair Estate, and supplying light and power to the district traversed, is in the course of arrangement. Parliamentary powers are to be applied for in the next session of the Legislative Assembly. Benjamin Hampson and W. W. Cato, both of Durban, are interested.

FACTORY EQUIPMENT.—India.—Contracts amounting to $500,000 for extension of Titaghur Jute Co.'s mill at Calcutta are stated to have been placed as follows: Factory and finishing machinery and shafting, ROBERTSON & ORCHAR, Dundee, Scotland; seven Lancashire boilers and set of engines, JAMES CARMICHAEL & CO., LTD., Dundee, Scotland; preparing and spinning machinery, MESSRS. FAIRBAIRN, Leeds, England.

RAILWAYS.—Argentina.—Central Cordoba Ry. Co., Duncan Munroe, Gen. Mgr., Buenos Ayres, is stated to have obtained necessary capital for carrying out the vast network of narrow gage railways in the interior of the Republic, projected many years ago. This scheme, once carried out, will establish communication between all the Andine provinces, the central provinces, and those in the north, including Jujuy and eventually Bolivia, with Buenos Ayres.

RAILWAY.—South Africa.—According to "The British and South African Export Gazette," the present status of the Cape-to-Cairo railway scheme is as follows: Capetown to Victoria Falls (constructed), 1,623 miles; Victoria Falls to Broken Hill (authorized), 350 miles; Broken Hill to Lake Tanganyika (to be constructed), 450 miles; Lake Tanganyika to Fashoda (to be constructed), 1,170 miles; Fashoda to Khartoum (authorized), 480 miles; Khartoum to Cairo (constructed), 1,341 miles.

CHANNEL IMPROVEMENT.—Bermuda.—Tenders are asked by Crown Agents for the Colonies, Whitehall Gardens, London, S. W., until April 10 for deepening, widening and buoying St. George's Channel, Bermuda. Plan, drawing, sections and forms of contract and tender can be seen at office of Coode, Son & Matthews, 9 Victoria St., London, S. W., England, during month of February, or, on application to the Crown Agents and payment of $100, which will be returned on submission of bona fide tender, contractors may secure two copies of form of contract and form of tender, and will be allowed to make copies of the plan, drawings and sections.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

ENGINES AND BOILERS.—Lyons, Ga.—J. B. Exum is in the market for the above.

WATER PIPE.—Smith's Grove, Ky.—J. R. Kirby, Mgr. W.-W. Co., wants prices for water pipe.

ACETYLENE GAS PLANT.—Charlotte, N. C.—Alexander & Garsed are in the market for the above.

25-HP. BOILER.—Ronda, N. C.—J. W. Miner is in the market for a 20 to 25-HP. return tubular boiler.

PAINT MACHINERY.—Charleston, S. C.—Alex. Martin, Box 263, is in the market for machinery for making paint.

ENGINE, BOILER AND WELL DRILLING.—Arkadelphia, Ark.—P. T. Davidson is in the market for the above.

BENCH VISES.—Cincinnati, O.—The Am. Copper & Brass Works is reported as in the market for bench vises.

TIME RECORDER.—Hartford, Conn.—The Sterling Blower & Pipe Co. is in the market for a factory time recorder.

ICE PLANT.—Dawson, Ga.—M. C. Edwards is reported in the market for the equipment for a complete ice-making plant.

ELEVATORS.—New York, N. Y.—W. B. Tuthill, Arch., 287 Fourth Ave., wants to correspond with builders of elevators.

BUILDING MATERIAL.—Baltimore, Md.—Morris & Clifford, Archs., Calvert Bldg., are in the market for building supplies, etc.

60-HP. BOILERS.—Baltimore, Md.—H. E. Morgan, 1710 North Carolina St., is in the market for two 60 to 75-HP. horizontal boilers, etc.

ELEVATORS AND HOISTING EQUIPMENT.—West Point, Miss.—The Storck-Walter Const. Co. is in the market for elevators, etc.

STRUCTURAL MATERIAL, HARDWARE, ETC.—West Point, Miss.—The Storck-Walter Construction Co. is reported in the market for the above.

CEMENT, TOOLS, ETC.—Nashville, Tenn.—The Granitoid Construction Co. is in the market for cement, builders' supplies, cement working tools, etc.

MINING SUPPLIES.—Clarksville, Ark.—The Eureka Anthracite Coal Co. is understood to be in the market for the equipment for a 500-ton breaker, etc.

SPIKES.—New York, N. Y.—The J. E. Ogden Co., 147 Cedar St., writes us that it wants the names of manufacturers of railroad, boat and dock spikes.

ELECTRICAL SUPPLIES.—Brazil.—H. F. Furniss, U. S. Consul, of Bahia, has inquiries for catalogues of electric lamps, fans, wire, dynamos, telephones, etc.

WELL DRILLING MACHINERY.—Elk City, Okla.—The Citizens' Oil, Gas, Coal & Mineral Co. (P. O., Busch) is reported in the market for well-drilling supplies.

MACHINE FOR MAKING SHOE NAILS.—Shreve, O.—Paul S. Craig writes us that he wants the names of firms making machines for turning out horseshoe nails.

PLANERS, BORING BAR, VALVES, ETC.—Greenville, S. C.—W. G. Gregory, care of Mt. City Fdy. & Machine Works, is reported as in the market for the above.

CELLULOID SHEETS.—Utica, N. Y.—Emile Low, C. E., 31 Maine Bldg., writes us that he wishes to buy celluloid sheets to cut out a set of railroad cards, thickness about 1-16-in.

CEMENT SHINGLES.—Des Moines, Ia.—Geo. T. Boelter, 721 West Seventh St., writes us that he wishes to correspond with manufacturers of cement shingles.

BARREL-MAKING MACHINERY, ETC.—Chili.—J. E. Irchard, Avenida Vicuna Mackenna 52½, Santiago, is in the market for barrel-making machinery, the barrels to be 54 × 36 ins.

ENGINEERING INSTRUMENTS.—Zanesville, O.—J. M. Walter, C. E., 118 Jefferson St., writes us that he is in the market for a transit and level, and wishes to secure catalogues, etc., at once.

RUBBER TILING.—India.—R. K. Motislaw & Co., 9 Love Lane, Mazagon, Bombay, wishes to secure catalogues from manufacturers of interlocking rubber tiling. Send samples and discounts, etc.

SANITARY SUPPLIES.—Vera Cruz, Mex.—Santa C. Hermanos, Independicia No. 41, is in the market for sanitary supplies in connection with the proposed sanitary improvements to Vera Cruz.

MEDICAL KIT.—Boston, Mass.—Alex. S. Ackerman, of the Mass. Inst. of Technology, writes us that he wishes to secure information relating to contractors' medical kits, occupying small space and easily transportable.

10-HP. WATER MOTOR.—Louisa, Ky.—W. B. Cox & Co., of the Louisa Water Co., write us that they desire to purchase a 10-HP. water motor, the pressure of water to be 110 lbs. Inquiry without bids will not be considered.

SMOKE STACK.—Lockport, N. Y.—The Am. District Steam Co., Robt. Hall, Treas., writes us that it is in the market for a brick, steel or concrete smoke stack of 1,500 to 1,800 HP. capacity, and wishes catalogues, etc., at once.

SANITARY GOODS, PAINT, HARDWARE AND WINDOW GLASS.—Canton, China.—Purnell & Paget, Architects and Engineers, Canton, write us that they are in the market for the above, and want to receive catalogues from manufacturers.

HEATING APPARATUS.—Thos. Veitch, of Anson, Tex.; A. C. Cameron, of North East, Md.; W. B. Tuthill, Arch., 287 Fourth Ave., New York, and C. W. Crockett, Co. Clk, Greenwood, Miss, are reported as each in the market for heating plants, steam or hot air.

BUILDING SUPPLIES, RAILWAY MATERIAL, ETC.—St. Augustine, Fla.—R. N. Dickey, Gen. Mgr. St. Augustine-So. Beach Ry., writes us that his company contemplates erecting hotel properties at South Beach and extending the road, and will be in the market for the required supplies

MINING SUPPLIES.—Petros, Tenn.—The "Manufacturers' Record" reports that the Brushy Mt. Coal Mines are in the market for two electric drive pumps, brass or bronze lined, 220 volts; a centrifugal pump 4-in. discharge, 5-in. suction, pulley 8 × 10, brass or bronze lined (a centrifugal pump a size larger or smaller will answer); one 15-HP. 220-volt motor; one 10-HP. 220-volt motor.

DREDGES, PUMPS, WATER-WORKS, TOOLS, DITCHING MACHINERY, TRENCH BRACES AND GENERAL CONTRACTORS' SUPPLIES.—South Africa.—Jas Coolie, Contractor, 15 Barrack St., Cape Town, So. Africa, writes us that he wants catalogues from manufacturers and dealers in the above-mentioned supplies. It is desired to have prices given, discounts, and other particulars. Mr. Coolie is now engaged in building a main sewer.

PAVING.—Greece.—Municipality of Athens is considering several projects for improvement of streets in that city which at present are in an unsatisfactory condition. One of the projects provides for the laying down of three kinds of paving in different parts of the city; macadam tarred on the surface, asphalt, and granite. About 300,000 square meters would be macadamized, 74,000 square meters asphalted, and 60,000 square meters paved with granite. The total cost of the work is estimated at about $700,000.

PUBLIC WORKS.—Austria-Hungary.—Municipality of Vienna, according to reports, will shortly invite tenders for the execution of the following works: Extension of the tramway system, cost, about $1,281,250; establishment of a second water system, cost, about $604,000; construction of bridges, cost, about $187,500; extension of electric light system, cost, about $1,250 000; paving works, cost, about $561,875; construction of a market, cost, about $83 300; central abattoir, cost, $104,000; museum, cost, about $10,415; works at the central cemetery, cost, about $270,000.

RAILWAY CONSTRUCTION.—Switzerland.—A decree has been published authorizing the Administration of the Federal Railways to construct a narrow gage line from Brienz to Interlaken, at an estimated cost of about $1,100,000. A concession has been granted to M. W. Hetzel, of Basle, for the construction and working of a narrow gage railway from Frutigen to Adelboden. The estimated cost of the work is about $640,000, of which about $110,000 is to be expended on rolling stock. A concession has been granted to M. Stocker, Secretary of the Municipality of Neudorf, and M. Esterman, Mayor of Hildisrieden, for the construction and working of a narrow gage electric railway from Menziken to Emmenbrücke. The estimated cost of the work is about $390,000, of which about $64,000 is to be exponded on rolling stock.

HARBOR WORKS, ELECTRIC TRACTION.—Chili.—Benigo Polanco, Jr., Box 671, Valparaiso, writes us that projected harbor improvement has been approved by the Government, and bids will be asked shortly for doing the work. One year probably will be allowed contractors in which to submit bids. The estimated cost of the work, which was mentioned in our issue of Nov. 3, will amount to about $11,000,000. The improvements include the construction of several breakwaters and docks. Information can be obtained very likely by addressing Direccion General de la Armada, Valparaiso. Bids for similar harbor work at Talcahuano were opened the latter part of October, and Mr. Polanco informs us that contract for the work was let to ALBERTO LIRA, Apostadero Naval, Talcahuano. Estimated cost of the work is about $4,000,000. Mr. Polanco also informs us that the Valparaiso Street Car Company is replacing the old horse cars at present in use by electric cars of the overhead system. The address of the company is Cia. de Carros Electricos de Valparaiso, Calle Coudell, Valparaiso.

OIL.—Island of Sakhalin, Asia, Russia.—A correspondent sends us the following: "Before the Russo-Japanese war, Russian geologists and engineers, exploring the island of Sakhalin, discovered there vast oil deposits. The oil on the island is quite near to the surface, 1 to 275 ft. depth, in form of subearthen lakes, with areas up to 8,000 sq. ft. The oil forms natural gushers, and, according to the statement of C. S. Patonoff, the oil deposits of Sakhalin are richer than the oil deposits of America. The oil deposits are situated 10 to 25 miles from the eastern coast of Sakhalin, on which coast many bays are located, permitting to steamers with 20 ft. draft to touch them. The bays are frozen only four months, and even then the ice can be broken by special steamers, called in Russian 'Ledokol.' The war has not decreased the interest of the Russian enterprise in this discovery, but has increased it, as the Japanese and English coal merchants refused to cover the coal demand of the Russian navy. Therefore it is decided to use as fuel for the Russian navy liquid fuel, produced from Russian territory, to the newly organized Russian Sakhalin Oil Co., at Charkoff, Russia, the government granted a monopoly and other privileges. The new company is said to be the only concern able to compete in all countries of eastern Asia with the Standard Oil Co. and other oil concerns. The development facilities of the oil deposits are quite exceptional; the labor of Russian, Chinese and Corean laborers is extremely cheap, etc. During the first period of its business the Russian Sakhalin Oil Co. proposes to produce 600,000 to 700,000 tons yearly. This oil will be refined and placed on the markets as follows: 60% as kerosene, 30% as liquid fuel, and 10% as lubricating oil and other products. This business will require a capital of Rbls. 3,000,000,000. Bakou concerns with an equal capital produce over 800,000 tons of oil yearly. With the increase of the business the capital of the Russian Sakhalin Oil Co. will be correspondingly increased, according to the by-laws of the company." For further information, address N. de Steinfeld, Russian-American Trading Co., Lopanskystrict No. 10, Charkoff, Russia.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*OUTLET TUNNEL AND SHAFTS.—Casper, Wyo.—Following bids were received Jan. 9 by Chief Engineer, Reclamation Service, for construction of outlet tunnel and two vertical shafts to serve as diversion tunnel for Pathfinder Dam, on North Platte River, about 50 miles southwest of Casper: (1) McDonough & Meehan, Chicago, Ill.; (2) Farris-Kesl Construction Co., Ltd., Boise, Idaho; (3) Kilpatrick Bros. & Collins Contracting Co., Beatrice, Neb.; (4) Streeter & Lusk, Denver, Colo.:

		(1)	(2)	(3)	(4)
Solid rock excavation	1,000 cu. yds.	$2 00	$2.00	$1.25	$1.25
Loose material	2,500 cu. yds.	1 00	1 00	.60	.60
Tunnel	480 lin. ft.	49.00	45.00	38.00	57.00
Shafts	350 lin. ft.	140.00	33.00	38.00	57.00
Overhaul	100 cu. yds.	.20	.02	.025	.....
Total		$77,040	$37,652	$34,292	$50,030

DIKE.—Washington, D. C.—Following bids were received by Bureau Yards and Docks Jan. 14 for constructing longitudinal dike at Navy Yard, Mare Island, Cal., (1) being price per lineal foot for the dike, complete, based upon a length of 2,000 ft., in accordance with plans and specification; (2) price per lineal foot for the construction of 500 ft. additional in continuation; (3) price per lineal foot of round piles in place to govern any increased length of piling required to be furnished; (4) price per thousand feet board measure of lumber worked into place; (5) price per pound of metal worked into place: W. N. Concanon, 205-207 Crossley Bldg., San Francisco, Cal., (1) $42.95, (2) $43.40, (3) 18 cts., (4) $30, (5) 5 cts.; Cotton Brothers & Co., Bacon Bldg., Oakland, Cal., (1) $43.40, (2) $42.90, (3) 23 cts., (4) $49, (5) 5½ cts.; Burrell Construction Co., Central Bldg., Oakland, Cal., (1) $43.37, (2) $41, (3) 37 cts., (4) $27, (5) 4 cts.; Healy, Tibbitts & Co., 22 Market St., San Francisco, Cal., (1) $36.90, (2) $36 90, (3) 29 cts., (4) $44, (5) 9 cts.; Thomson Bridge Co., 129 Mission St., San Francisco, Cal., (1) $41.13, (2) $41.13, (3) 30 cts., (4) $34.75, (5) 5 cts.; City Street Improvement Co., 512 Mills Bldg., San Francisco, Cal., (1) $38.88, (2) $38.88, (3) 19½ cts., (4) $38, (5) 9 cts.; Dundon Bridge & Construction Co., 225 Folsom St., San Francisco, Cal., (1) $41.25, (2) $41 10, (3) 30 cts., (4) $50, (5) 8 cts.

WATER-WORKS IMPROVEMENTS.—Washington, Ga.—Following bids were received by city officials Jan. 5 for improving water-works; (1) Van D. Hite Smith, Knoxville, Tenn. (informal); (2) Walton & Wagner, Rome, Ga. (not itemized); (3) Philadelphia Wrecking & Contracting Co., Baltimore, Md. (awarded contract); (4) Lane Bros., Esmont, Va.: N. Wilson Davis, Harrisonburg, Va., was Consult. Engr.:

Bids received at Washington, Ga., January 5, 1905, for Improving Water Works.

Items.	Quantity.	(1)	(2)	(3)	(4)
15-in. terra cotta pipe	4,800 ft.	.61½	.59^{51}	.55	.65
Concrete at intake	10 cu. yds.	14.50	10.50	15.00	20.00
Earth excav. reservoir	3,200 cu. yds.	.25	.28^{1}	.24	.25
Paving reservoir	2,200 sq. yds.	.66⅓	.13⅔	.60	1.40
Concrete reservoir	500 cu. yds.	5.60	6.00	5.00	7.50
Brick in reservoir	45 M.	12 00	11.11	12.00	14.00
Masonry in building	50 cu. yds.	7.00	10.00	5.00	7.00
Pumping station	1	1,410.00	2,500.00	2,500.00	2,800.00
Compound pump	1	1,050.00	850.00	1,000.00	1,000.00
Boilers	2	1,520.00	1,625.00	1,800.00	2,200.00
Masonry at stand pipe	1,305 cu. yds.	6.00	5.38^{4}	5.00	6.00
Stand pipe	1	6,000.00	5,382.50	5,300.00	5,400.00
8-in. cast iron pipe	10,400 ft.	.73	.81	.90	.79
Rock excavation	20 cu. yds.	7.50	3.00	4.00	3.00
Totals		$28,515	$28,602	$29,653	$33,441

BRIDGE RECONSTRUCTION.—St. Paul, Minn.—Bids were received by city officials Jan. 3 for reconstructing portion of High Bridge. The bids were taken in three forms, No. 1 calling for use of both old and new material and repair and erection of plate girders; No. 2 calls for the same work as No. 1, save that contractor is to pay for old material; and No. 3 calls for use of new bridge material alone. Under No. 2 the bids received for purchase of 420 net tons of old material were as follows: St. Paul Foundry, $9.20; H. E. Harlon & Co., $8; Minneapolis Steel & Machine Co., $8.45; A. T. Bayne & Co., $9; Milwaukee Bridge Co., $9.50. Without deducting this sum the total bid received on No. 2 were the same as those on No. 1, save that H. E. Harlon & Co. bid 5 cts. for erecting old material, making their total bid $75,700. The itemized bids received on No. 1 and total bids received on No. 3 were as follows; (1) St. Paul Foundry, (2) H. E. Harlon & Co., (3) Minneapolis Steel & Machine Co., (4) A. T. Bayne & Co., (5) Milwaukee Bridge Co.; L. E. Rundlett is Cy. Engr.:

BIDS RECEIVED AT ST. PAUL, MINN., JANUARY 3, 1905, FOR RE-CONSTRUCTING No. 1 PORTION OF HIGH BRIDGE.

		(1)		(2)		(3)		(4)		(5)	
Items.	Quantity.	Per lb.	Total.	Per lb.	Total.	Per lb.	Total.	Per lb.	Total.	Per lb.	Total.
New material erected	850,000 lbs.	.0502	$42,670	.058	$49,300	.0508	$43,180	.0505	$42,925	.0521	$44,285
Old material erected (except girders)	300,000 lbs.	.0346	10,380	.046	13,800	.0352	10,560	.0350	10,500	.035	10,500
Repair and erect plate girders	54,000 lbs.	Lump	2,045	Lump	2,400	Lump	2,200	Lump	2,000	Lump	2,277
Railing	1 200 lin. ft.	2.10	2,520	2.50	3,000	2.25	2,700	2.15	2,580	2.35	2,820
Wood floor system, sidewalks, etc	600 lin. ft.	8.90	5,340	10.00	6,000	8.45	5,070	9.00	5,400	9.50	5 700
Total			$62,955		$74,500		$63,710		$63,405		$65,582
Total for No. 3			70,046		78,832		....		69,504		71,067

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE STEPHENS-ADAMSON MFG. CO., Aurora, Ill., announces that it has opened a sales office in the First National Bank Bldg., Chicago.

PURDY & HENDERSON, Civil Engineers, 78 Fifth Ave., New York, announce that they have been engaged to design the iron work for the new Engineering Building of New York.

BURNHAM & IVES, of Bloomington, Ill., is the name of the firm organized by a partnership to carry on the business of Mr. J. H. Burnham, contractor for steel bridges, concrete and masonry work, highway culverts, etc. The office is in the Eddy Building.

THE BLOCK-POLLAK IRON CO., Chicago, announces that it has opened a branch office in St. Louis, Mo., located at 1610 Chemical Building, corner of Eighth and Olive Sts. Mr. Louis S. Simon will have charge of this branch.

THE WYCKOFF PIPE & CREOSOTING CO., of Stamford, Conn., has recently finished creosoting at its factory at Portsmouth, Va., the piles which are being used in the construction of the trestle at the Sandy Hook Proving Ground for the War Department of the U. S. Government.

THE RAYMOND CONCRETE PILE CO., Chicago, has been awarded the contract for over 1,000 concrete piles for the foundation of a new building to be erected for the Troy Laundry Machinery Co., at 23d and La Salle Sts., Chicago. Work is now in progress. Jenney & Mundie are the Architects and Ritter & Mott the Engineers.

THE WILLIAMS CONTRACTOR'S SUPPLY CO., of Columbus, O., announces that it has engaged E. J. Williams, for 18 years manager of branch houses for the Austin Mfg. Co., of Chicago. The Williams Contractor's Supply Co. will handle a full line of the Austin company's goods and of the Western Wheel Scraper Co., [illegible] irora, Ill., together with a full line of supplies used [illegible] neral contractors.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

MR. ALFRED H. SCHUTTE, 26 Cortlandt [illegible] New York, announces that he will continue the [illegible] nery business formerly carried under the name of S [illegible] hardt & Schutte, and will open show rooms in Co'o [illegible] (Germany), Brussels (Belgium), Liege (Belgium [illegible]) Paris (France), Milan (Italy) and Bilboa (Spain). T [illegible] latest catalogues from machinery and tool firms are w [illegible] d.

R. L. FOSBURGH & SONS, of Boston, anno [illegible] that the present copartnership will be succeeded by [illegible] Fosburgh Co., with a capital of $200 000. The com [illegible] will specialize in steel structures, mill construction [illegible] reinforced concrete work. The former company [illegible] just completed the concrete-steel group of building [illegible] the United Shoe Machinery Co., of Beverly, Mass. A [illegible] ated with the members of the old firm in the activ [illegible] duct of the business of the new company will be M [illegible] R. Bickford, Superintendent for R. L. Fosburgh & S [illegible] Mr. Henry Cummings, Jr., who for several years w [illegible] with the Norcross Bros. Co., and for the last three y [illegible] contracting agent for the American Bridge Co., [illegible] Mr. Joseph Gascoigne, for fifteen years chief estimator [illegible] the Norcross Bros. Co. The new company will oc [illegible] the suite of rooms, 719 to 724 in the Beacon Building, No. 6 Beacon St., Boston.

THE STANLEY ELECTRIC MFG CO., of Pittsfield, Mass., states that the California Gas & Electric Corporation of San Francisco has just ordered two mammoth frequency changing outfits of 5,000 KW. capacity each, amounting to virtually 20,000 KW. capacity divided between four machines operated as two motor generator sets. These outfits are for use in connection with the contract which the California Gas & Electric Corporation has secured from the San Francisco St. Ry. Co., and will change the 60-cycle current from the Bay County long-distance line to 25 cycle for further distribution among the substations of the Street Ry. Co. The contract awarded the Stanley company also includes transformers of 12,000 KW.

THE C. O. BARTLETT & SNOW CO., Cleveland, O., reports the following recent sales of its different machinery: Dundee Silica Sand Co., Dundee, O., elevating and conveying machinery; Leisy Brewing Co., Cleveland, tube barley conveyor; Pattison Supply Co., Cleveland, coal conveyor; T. S. Henderson & Co., St. Louis, special cable conveyor; C. L. Holck & Co., Monterey, Mex., mining machinery; Royal Crown Lead Co., Detroit, paint machinery; Moore Bros., Cleveland and New York, paint machinery; Lowe Bros., Dayton, O., paint machinery; Memphis White Lead Co., Memphis, Tenn., paint machinery; International Harvester Co., Chicago, paint machinery; Independent Stone Co., Cleveland, two steam hoists and derricks; The Underwriters Land Co., Carthage, Mo., ore elevator; Lorain Supply Co., Lorain, O., style E rotary dryer; The Berg Co., Philadelphia, Triumph steam dryer; General Chemical Co., Cleveland, direct heat dryer; Brightman Chemical Co., New Brighton, Pa., salt rotary dryer; Ross Keller Triple Pressure Machine Co., St. Louis, direct heat rotary dryer.

THE WIDELL-FINLEY CO. has been incorporated for carrying on a general engineering and contracting business, and succeeds to the contracting business of G. Widell, of Mankato, Minn. It will make a specialty of all classes of foundation and substructure work, masonry and concrete structures, and the erection of steel and wooden bridges. The President, Mr. G. Widell, has been long known as a contractor for high-class masonry and concrete work, and is the owner of stone quarries at Mankato, Minnesota. The Vice-President, Mr. W. H. Finley, M. Am. Soc. C. E., and M. W. Soc. E., has been connected with the engineering department of the Chicago & Northwestern Ry. for the past 13 years, as engineer of bridges during eight years, and as principal assistant engineer for the past five years. The General Superintendent, Mr. W. A. Hazard, M. W. Soc. E. has been connected with the engineering department of the Chicago & Northwestern Ry. for two years as assistant engineer in charge of construction, and for the past six years as engineer and superintendent of construction for Mr. G. Widell. The company has opened offices at 655 Monadnock Block, Chicago, and in Mankato, Minn. Mr. Finley and Mr. Hazard are in charge of the Chicago office

THE RUDOLPH S. BLOME CO., Unity Bldg., Chicago, during 1904 has completed or begun the following construction work: The eight concrete buildings erected for the South Park Commissioners, two at 33d St. and Shields Ave. and six at 52d and Throop Sts., the foundations, walls, partitions and floors being constructed entirely of concrete. The cost of these improvements will aggregate $210,000. Of contracts for foundations and substructures the most important were those of the railr [illegible] d substructure of the Chicago & Milwaukee Electric R. R. at Rondout, Highwood and Lake Bluff, Ill., at ab [illegible] t $34,000; also a concrete dock wall for the Grand Trunk R. R. Co., at Grand Rapids, Mich., at about $30,000; a [illegible] a concrete subway and trestle foundations at the We [illegible] n Electric Co.'s new plant, at about $16,000. They built the concrete fireproof floors and roofs of the American Malting plant at Milwaukee, at $48,000; also of the Schlitz Brewing Co. malt house at said city, at $24,000;

also 110,0[illegible] sq. ft. of such floors and roofs at the Kansas City (Ka[illegible]) plant of Nelson, Morris & Co.; also the fireproof fl[illegible] roofs and stairways of the Metropolitan Elevated [illegible] R. stations at Fifth Ave., Center Ave. and Laflin S[illegible] Among the more important office buildings, they ex[illegible]ed the concrete work of Thomas Orchestra Hall, C[illegible]ago & Northwestern office building, Rector building [illegible]ailway Exchange, 140,000 ft. of concrete floors in the P[illegible]en building at Sherman and Harrison Sts., also the Ro[illegible]eller building at Clevland, O. They are also laying t[illegible]ement floors of the new Indianapolis post office and 90,0[illegible] ft. of cement floors for Nelson, Morris & Co., and ha[illegible]ontract for the concrete work of the Majestic Theater [illegible]t about $14,000. This concern has just been awarde[illegible]t about $110,000, what constitutes the largest contra[illegible]ver let in Chicago for concrete fireproof floor constru[illegible]n, that of the Armour Glue Works' new soap plant, [illegible] they also hold contract to lay upward of a million [illegible]et of concrete floors, sidewalks and pavements of the [illegible]w union station at Washington, D. C.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, has received an order through its agents, Takata & Co., of Tokio, for 13 direct current generators, each of 62.5 KW. capacity, and 13 spare armatures. Each generator will be driven by a 125-HP. steam engine, and the 13 engines will be supplied by the Westinghouse Machine Co. This company has sold to the International Paper Co. for use in the plant at Berlin, N. H., one 250-KW. alternating current generator of the revolving armature type, three 40-HP. alternating current motors, with switchboard, transformers, etc. The Westinghouse company has sold to the Detroit United Ry. Co. a 1,500-KW. railway generator, and a 250-KW. booster set. These machines are in addition to four other railway generators of an aggregate capacity of 5,000 KW. which the Westinghouse company has already installed for the Detroit company. Other street railway contracts just closed by Westinghouse include 50 four-motor car equipments, to be used by the Cleveland Electric Ry. Co., of Cleveland, for city and suburban service. The motors will be of the new Westinghouse type, No 101-B. The Westinghouse company has sold to the Syracuse R. R. Construction Co. apparatus for the complete equipment of the Rochester, Syracuse & Eastern R. R. The contracts include two 1,500-KW. turbo-generator outfits which will generate current at 3,300 volts, 3-phase and 25 cycles. Each turbo-generator will be furnished with a 50-KW. exciter mounted on the turbine shaft. The equipment also includes two 500-KW. rotary converters and six 400-KW. rotary converters; twenty-four transformers, with a total capacity of 6,500 KW., a 13-panel switchboard for the main generating station, and three substation switchboards of 5 panels each, as well as protective and detail apparatus. Motor equipments included in the contract call for 12 quadruple equipments of Westinghouse 110-HP. motors, as well as 8 quadruple and two double equipments of motors of other sizes. Turbo-generator contracts closed by this company during the last week of 1904 included two 1,000-KW. outfits for the Haverhill (Mass.) Electric Co, two 1,500-KW. outfits for the Rochester, Syracuse & Easter nR. R., and one 1,000-KW. outfit with exciter for the Springfield Electric Light Co., Springfield, Mass.; also a 300-KW. turbo-generator with exciter for the Northern Electric & Mfg. Co., of Montreal. The Springfield Electric Light Co.'s contract also included two 500-KW. rotary converters and four 300-KW. transformers. The Westinghouse Electric & Mfg. Co. has closed a contract with the Ontario Power Co. for an alternating current generator with a rated output of 10,000 HP. at 85% power factor. This is in addition to three other machines of similar type which the Westinghouse company is furnishing for this plant. The generators are of the revolving-field, two-bearing type, designed for direct connection to water-wheels; they generate three-phase current at 12,000 volts and 25 cycle, and run at a speed of 187½ r. p. m. Among other apparatus included in the contracts are twelve 3,000-KW. oil-insulated water-cooled transformers, wound for 12,000 and 60,000 volts; two 375-KW. exciters, and complete switchboards. Messrs. P. N. Nunn and L. L. Nunn are engineers in charge, and the plant is being built by the Niagara Construction Co., of which Gen. Francis V. Greene is President.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

GLOBE VALVES.—Burlington Brass Works, Burlington, Wis. Paper; 3 × 6 ins.; pp. 8; illustrated.

Recent testimonials and a revised price list of the "Kant Leak Valve" are here given.

ENGINES.—Buffalo Forge Co., Buffalo, N. Y. 3½ × 6¼ ins.; pp. 16.

This pamphlet contains illustrations of some of the different types of engines made by this company.

SOLAR EPHEMERIS FOR 1905.—George N. Saegmuller, Washington, D. C. 3 × 5½ ins.; pp. 12.

This Ephemeris, to be used with Saegmuller's patent solar attachment, will be sent to anyone on request.

DRAWING TABLE.—Economy Drawing Table Co., 1303 Utah St., Toledo, O. 3½ × 6 ins.; pp. 12.

A number of different types of drafting table are illustrated, and dimensions given; also, sectional filing cases.

CHARCOAL IRON.—The Berger Manufacturing Co., Canton, O. 5 × 6 ins.; pp. 12.

The different processes of making Berger's guaranteed re-hammered charcoal iron are illustrated and briefly set forth in this booklet.

CULVERTS.—Burnham & Ives, Bloomington, Ill. Paper; 3½ × 6¼ ins.; pp. 8; illustrated.

These are highway culverts, including cast-iron pipe, concrete arches, and masonry side walls carrying a roof of I-beams, with stone or concrete slabs.

CRANES.—Northern Engineering Works, Detroit, Mich. 3½ × 5¼ ins.; pp. 28.

This booklet shows in condensed form a few varieties of the cranes manufactured by this company. Stone-yard cranes, locomotive cranes, pillar cranes, jib cranes, etc., are illustrated.

AIR COMPRESSORS.—Clayton Air Compressor Works, 114-118 Liberty St., New York. 6 × 9 ins.; pp. 48.

Many cuts illustrate the different types and sizes of compressors, in addition to which are given very full details of sizes, weights, capacities, etc., of each of the different types.

DOUBLE SEAL SEWER PIPE JOINT.—Freeman Hines 2 Victoria St., Westminster, S. W., England. Paper; 9 × 11 ins.; pp. 4; illustrated.

By means of a locking joint and plastic bitumen poured into the joint through a small hole it is claimed that the necessity for skilled labor is obviated. If a double joint is required, however, cement is used.

PUMPS, CONDENSERS AND WATER METERS.—Henry R. Worthington, New York City. Paper; 6 × 9 ins.; pp. 132; illustrated.

Besides the well-known list of Worthington pumps of various types there are here described electric-driven house pumps, centrifugal and turbine pumps. Condensers, water and other meters are also shown.

GAGES, REAMERS AND DRILLS.—The John M. Rogers Boat, Gage & Drill Works, Gloucester, N. Y. 6 × 9 ins.; pp. 44.

Price lists and sizes are given of caliper gages, internal and external cylinder gages, limiting gages, etc.; also of reamers, adjustable plate reamers, chucking reamers, expanding shell reamers, milling tools, etc.

DUMP WAGONS.—The Troy Wagon Works Co., Troy, O. Paper folder; 6¼ × 14 ins.; illustrated.

This circular illustrates and describes the Troy steel bottom dump wagon for contractors' and general work. The bottom opens to give an unobstructed space for the full width between the sides.

THE HANCOCK VALVES.—6 × 9 ins.; pp. 23. The Hancock Inspirator Co., 85 Liberty St., New York, and 22 South Canal St., Chicago.

This is a catalogue and price-list of a new line of high-class valves for high pressure steam and water lines just placed on the market by the well known Hancock Inspirator Co.

SPECIFICATIONS FOR CEMENT.—Illinois Steel Co., Cement Department, Rookery Building, Chicago. Cloth; 6 × 9 ins.; pp. 17; illustrated.

This is a reprint of the report of the Committee on Standard Specifications for Cement, presented at the annual meeting of the American Society for Testing Materials, in June, 1904.

PNEUMATIC TOOLS.—Chicago Pneumatic Tool Co., Fisher Building, Chicago, Ill. Paper; 6 × 9 ins.; pp. 20; illustrated.

Much and various information on pneumatic tools is given here in a more or less unarranged style, in imitation of a periodical. The pamphlet succeeds in presenting many interesting facts about the work of pneumatic tools.

PRODUCER GAS; ITS USES AND COST.—Wile Power Gas Co., Rochester, N. Y. 6 × 9 ins.; pp. 16.

This catalogue consists largely of text setting forth the methods of making producer gas, its cost and its efficiency. An interesting table gives the cost per annum of producer gas power and other powers in engines of different types.

STEAM ROAD ROLLERS.—The Iroquois Iron Works, Buffalo, N. Y. 6 × 9 ins.; pp. 8.

This company has long been known as the builder of the Iroquois asphalt roller. They now are making, also, a macadam roller with a boiler of locomotive type surmounted by a horizontal engine, which this pamphlet briefly describes and illustrates.

PORTLAND CEMENT.—Chicago Portland Cement Co., Chicago. Paper; 6 × 8¼ ins.; pp. 42; illustrated.

The opening pages are devoted to the concrete approach viaducts of the Thebes cantilever bridge, with views of the structure and testimonials as to the cement. Illustrations and testimonials in regard to various other structures, together with records of tests, complete the book.

CONCRETE MIXER.—The W. H. Wilcox & Co., Binghamton, N. Y. Paper; 10 × 6¾ ins.; pp. 56; illustrated.

The Foote portable concrete mixer (made by the Foote Mfg. Co., Nunda, N. Y.) is of the trough type, the mixing being effected by blades on a horizontal longitudinal shaft. The machine is fitted with automatic measuring feed for the materials. A number of testimonials are given.

STEAM ENGINES.—American Blower Co., Detroit, Mich. Paper; 7 × 9 ins.; pp. 24; illustrated.

Vertical engines of the simple automatic type are described here. They are all small-sized machines, such as are suitable, for example, for driving fan blowers. The main mechanical details are effectively illustrated. A complete oiling system is part of the design.

POWER PUMPS.—The Sandusky Foundry & Machine Co., Sandusky, O. Paper; 5 × 8 ins.; pp. 24; illustrated.

Variable stroke power, cylinder vacuum, multiple cylinder water and vacuum, triplex stuff, heavy pressure triplex, deep well and other pumps, besides pump and well accessories, shower pipes for washing wires or felts used in paper making, are described in this catalogue.

RECORDING ELECTRIC METERS.—The Bristol Co., Waterbury, Conn. 9 × 12 ins.; pp. 40; illustrated.

Volt, ampere and watt meters of the well-known Bristol recording type (rotating disk) are described in this pamphlet. The different scales which are available for these instruments are illustrated separately. The instruments shown are all listed, with prices, ranges, sizes, speeds, etc., given.

MONTHLY PIPE FOUNDRY REPORTS.—Lynchburg Foundry Co., Lynchburg, Va. Thick paper; 5½ × 3 ins.; pp. 4.

These unique reports are issued monthly and show the weights of good and bad castings during the month, the percentage of rejections and the load and deflections of test bars. The latest report states that in November only 1,475 out of 1,709,098 lbs., or 0.08%, of castings were lost, while the average casting loss for twelve months had been 0.435%.

ICE-MAKING AND REFRIGERATING MACHINERY AND SUPPLIES, AMMONIA VALVES AND FITTNGS.—Featherstone Foundry & Machine Co., Chicago, Il. Paper; 5 × 7 ins.; pp. 143; tables and illustrations.

Useful information in the form of both tables and text follow the descriptions here given of a wide range of machinery and supplies for use in ice-making and in refrigerating plants.

WOOD STAVE PIPE.—National Wood Pipe Co., Sixth and Mateo Sts., Los Angeles, Cal. Paper; 10 × 6 ins.; pp. 36; illustrated.

Both the continuous stave pipe with bands applied in the field and the machine-banded sectional pipe are included. The illustrations are reproductions of photographs showing both kinds of pipe in service. Many testimonials from users of the pipe and from engineers are given.

ELECTRIC BLUE-PRINTING MACHINES.—Buckeye Engine Co., Salem, O. 3½ × 6 ins.; pp. 18.

This company, after building an electric blue-printing machine for its own use, found the machine so satisfactory that it was decided to manufacture and sell it. The pamphlet describes the machine in a general way and states some of the points in which superiority is claimed.

VENTURI MANOMETER.—Builders' Iron Foundry, Providence, R. I. Paper; 6 × 9 ins.; pp. 3; illustrated.

By means of this readily applied device readings may be taken of the velocity of water flowing through Venturi meter tubes and from these velocities the corresponding quantities may be determined. Directions for setting and reading the manometer are given in the circular.

MECHANICAL WATER FILTERS.—The Cummings Filter Co., Lewis Block, Pittsburg, Pa. Paper; 6½ × 7½ ins.; pp. 48; illustrated.

Animal charcoal or bone-black is the medium used in these filters and no alum or other agent is used as a coagulant. The filters are set in pairs, with connections and valves arranged so that either single or double filtration may be employed.

MORE STARRETT TOOLS: A Supplement to Catalogue No. 17.—The L. S. Starrett Co., Athol, Mass. 5½ × 7½ ins.; pp. 16.

Among the tools in this catalogue worthy of especial note are wire gages, micrometers, surface gages and protractors. The prices are given in the catalogue and appear to us very reasonable. For example, a 1-in. micrometer with decimal equivalents stamped on the frame is listed at $5.50.

LUDLOW GATE VALVES, FIRE HYDRANTS, ETC.—Pittsburg Mfg. Co., 28th St. and Railroad Ave., Pittsburg, Pa. Paper; 9 × 6 ins.; pp. 62; illustrated.

Various styles of gate valves and fire hydrants, as well as sluice gates, indicator valves, natural gas valves, manhole covers and other like goods are included. Useful tables and other general information are given, besides tables of detailed dimensions of gates.

CONDENSING APPARATUS.—The Deane Steam Pump Co., Holyoke, Mass. 5½ × 8 ins.; pp. 104.

The application of condensers to steam engines and the economy resulting therefrom are fully explained, tables of standard engine performances being given. The catalogue gives a large number of cuts illustrating the different types of Deane condensers and pumps, accompanied by tables of size, capacity, etc.

BLUEPRINTING MACHINES.—Spaulding Print Paper Co., 44 Federal St., Boston, Mass. Paper; 6 × 9¼ ins.; pp. 8; illustrated.

Views and drawings of the "Federal" blueprinting machines are shown. These have no glass cylinder, but receive illumination from the outside, over a limited arc of a wooden cylinder. The design is such as to permit continuous blueprinting, also a novel feature.

DYNAMOS.—De Laval Steam Turbine Co., Trenton, N. J. Two pamphlets; 6 × 9¼ ins.; pp. 24 each; illustrated.

These pamphlets describe electric generators intended for direct driving by De Laval steam turbines. The direct-current dynamos are built in capacities 50 to 200 KW. Alternators are built 75 to 200 KW., 60 cycles, two or three phase, and any voltage. Details and dimension diagrams and tables are given.

STEAM PUMPS.—A. S. Cameron Steam Pump Works, Foot of E. 23d St., New York City. Paper; 3 × 6 ins.; pp. 52; illustrated.

Simplicity, durability and absence of outside valve gear are among the special claims made for these single, direct-acting pumps. Dimensions, capacities, weight, prices and other particulars are given in tabular form. The catalogue includes several kinds of sinking pumps.

STORAGE BATTERIES.—Electric Storage Battery Co., Philadelphia, Pa. Celluloid; 5½ × 3 ins.; illustrated.

In very neat form here is given a great amount of information concerning storage batteries and their use for railway, lighting, telephone and other work. The characteristics of the company's own batteries are described; curves are given of battery service in various actual plants, tables of capacities, electrolyte densities, and similar information.

ALTERNATING CURRENT MACHINES.—The Bullock Electric Manufacturing Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 16; illustrated.

With some brief description of the construction, the pamphlet gives many views of parts and complete machines, showing the Bullock alternating current generators and motors, that is to say, synchronous motors. Many of these machines are in use, and most of the views are from actual plants.

REINFORCED CONCRETE BRIDGES.—Marsh Bridge Co., Des Moines, Iowa. Paper; 8 × 5 ins.; pp. 27; illustrated.

This pamphlet illustrates and describes briefly a number of reinforced concrete bridges built by the company named under the patents of the Concrete Steel Engineering Co., of New York City. The examples shown comprise some girder bridges of several 18 and 20-ft. spans each. There are also illustrations of the arch bridges at Kankakee, Ill., and at Waterloo, Ia., each having seven 72-ft. spans.

COAL WASHERIES, TIPPLES AND MINING PLANTS.—Roberts & Schaefer Co., 1275 Old Colony Building, Chicago, Ill. 6 × 9 ins.; pp. 48.

This firm of consulting and contracting engineers makes a specialty of designing and constructing coal-mining plants. Their catalogue shows cross-sections and photographs of a large number of plants designed and built by them in different parts of the United States.

WATER ELEVATORS.—The Jeffrey Manufacturing Co., Columbus, O., 4 × 8 ins.; pp. 12.

This catalogue illustrates a chain-bucket water elevator, operated by horse-power. Capacities, sizes and prices are given. Steam, gas or other power may, of course, be used with this type of elevator. It will lift muddy water from wells 10 to 50 ft. deep. Buckets are made of galvanized iron, and there are no valves to get out of order.

SHUT-OFF BOXES FOR WATER AND GAS.—Bingham & Taylor, Buffalo, N. Y. Paper; 6 × 9 ins.; pp. 16; illustrated.

Cast-iron service, valve, meter and gas drip boxes and extensions for same are shown in this catalogue; also a cast-iron sewer manhole head or cover and a cast-iron manhole head, with double cover, for underground wire conduits. In the latter provision against entrance of water and for the escape of explosive gases is made.

GARBAGE FURNACES.—The Dixon Garbage Crematory Co., Spitzer Bldg., Toledo, O. Paper; 9 × 7 ins.; pp 28; illustrated.

The company has chosen a few of its most interesting plants and described their main features briefly, with the aid of one testimonial. A feature of the illustrations is several types of garbage collecting wagons, including one for moving cans on the exchange system; that is, a clean can, washed and disinfected, is left for a dirty one.

PULVERIZING MACHINERY.—The Jeffrey Manufacturing Co., Columbus, O. 6 × 9 ins.; pp. 52.

This catalogue is largely given up to illustrations showing the different types of Jeffrey pulverizers, crushers and rolls. Tables of dimensions, power and capacity are given for ore, coal and limestone crushers, coal, clay and shale pulverizers, etc. An interesting illustration shows a Jeffrey pulverizer, with air separator, in which an exhaust fan carries the fine material in suspension to the receiving receptacle. The coarse material remains in the pulverizer until reduced to the proper consistency.

FILTERS.—The Connyblack Engineering Co., Filtration Specialists, 154 N. Perry St., Cleveland, O. Paper; 6 × 9 ins.; pp. 7.

Much is claimed for these filters, but very little specific information as to their character or efficiency is given. They are designed to treat water, which it is said they render germ free, and for use in fruit juice, syrup, glucose and mucilage factories, breweries, oil and sugar refineries, dye, gas and chemical works, and also as air filters in heating and ventilating plants. It appears that the filtering medium is 2½ ins. of sand, that no coagulant is used, and that great economy of space is effected by placing the filters in vertical stacks.

HANDLING AND STORING COAL AND ORE.—The Dodge Coal Storage Co., Nicetown, Philadelphia, Pa. 6 × 9 ins.; pp. 62.

This catalogue is given up largely to photographs illustrating some of the many plants installed by this company. The titles of a few of the plants are as follows: Overhead Pocket Storage, Trestle and Tunnel Storage, Parallel Trestles and Revolving Clam-shell Crane, Storage Plant of the New York Edison Company, Hoisting Tower at the Manhattan Elevated Railway Company, High-speed Bridge Tramways, Car Dumping Machine for the D., L. & W. Railroad, Hoboken, Smith Box Car Loading Machines.

THERMIT WELDING.—Goldschmidt Thermit Co., 43 Exchange Place, New York. Paper; 5½ × 9 ins.; pp. 12; illustrated.

Directions are here given for welding pipes by means of Thermit. Sizes of molds and quantities of material for various sizes of pipe are given in tabulated form. The pamphlet also describes a new material, "Sinter Thermit," which, like ordinary Thermit, develops a white heat; but it does not fuse, and merely frits together. This can be used for heating metals for any purpose, as for hard-soldering, etc. It should be said that this company has made up sample sets for the various applications of Thermit, including, in each case, molds, crucible, ignition powder and Thermit, which are sold at a reasonable price for the purpose of allowing any one to experiment with the material and study out its applications.

WATER TURBINES AND GOVERNORS.—Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 32; illustrated.

A number of fine views of turbine installations are shown, in illustration of the announcement that the Allis-Chalmers Co. is now the American licensee of the Escher-Wyss Co., of Zurich. That company's turbine governors will also be made here. The Allis-Chalmers Co. will also build impulse wheels, and here will depart considerably from the Pelton type which has become so universal in America. The buckets are usually provided with a center rib, or splitter, as in the Pelton wheels, but are open at the front and back instead of forming two closed pockets. Some of the impulse wheels have not the central ridge, but are intended to receive the stream at one side and discharge it at the other, as in the De Laval steam turbine.

STEAM PUMPS.—A. S. Cameron Steam Pump Works, foot of E. 23d St., New York City. Paper; 6 × 9 ins.; pp. 143; illustrated.

A great variety of pumps is shown in this well-made catalogue. The manufacturers direct particular attention to the simplicity and durability of their pumps and to "the entire absence of outside valve gear or moving parts." Four stout pieces constitute the entire steam mechanism. An interesting line of sinking pumps is included, as well as a telescopic joint for lifting sinking pumps without disconnecting them during blasting operations.

REINFORCED CONCRETE ARCH BRIDGES.—National Bridge Co., Indianapolis, Ind. Paper; 6 × 9 ins.; pp. 15; illustrated.

This pamphlet discusses the Luten arch in which the ends are tied together by an invert of concrete laid on the bed of the stream. The text, written by Mr. Daniel B. Luten, discusses method of design and gives formulas for computing Luten arches; describes details of erection, and illustrates and explains a number of bridges actually built by the company named. Among these structures we note one of 95-ft. span, built at Yorktown, Ind., for a county highway.

THE BUFFALO & SUSQUEHANNA RAILWAY and Allied Interests.—Paper; 5 × 8 ins.; pp. 93; illustrated. New York: Fisk & Robinson, 35 Cedar St.

This pamphlet describes the development of this railway system in western New York and northwestern Pennsylvania. It has grown from a modest enterprise, built to develop coal and timber lands chiefly, until it has become a notable railway line, connecting enormous deposits of anthracite and bituminous coal in western Pennsylvania with an outlet on the Great Lakes at Buffalo, N. Y., where a great iron making plant will use the coal from these fields and the ore from the Lake Superior mines. The pamphlet is issued by the bankers who have financed the enterprise and is an excellent and dignified method of presenting the securities to the attention of investors.

CONDENSERS AND PUMPS.—Alberger Condenser Co., 95 Liberty St., New York. 6 × 9 ins.; pp. 48.

The Alberger barometric condenser is a novel device which is illustrated and described in detail. This condenser is characterized by having a condenser chamber supported upon a tail-pipe that contains a barometric column of water, the function of the column being to allow the water which is produced by condensation in the condenser, to flow by gravity into the hot well without allowing air to enter. The use of this barometric condenser as a central condenser in connection with blowing engines is illustrated in line drawings, and its merits set forth. Lack of space prevents further mention of many interesting features in this catalogue.

ROCK DRILLS AND MINING AND QUARRYING MACHINERY.—The Ingersoll-Sergeant Drill Co., 114 Queen Victoria St., London, E. C., England. 6 × 9 ins.; pp. 166.

This is an English edition of the Ingersoll-Sergeant Drill Catalogue No. 44, corresponding to the American edition No. 43. All prices are given in English currency. The details of the different types of Ingersoll drill are shown by line drawings, and the merits of the drill are fully set forth. Tables are given of the dimensions, weights, capacities and prices of the different sizes and kinds of drills manufactured by this company. Channelers for quarrying are shown and data as to their capacity are given. Submarine rock drilling is illustrated and discussed in detail. A new and interesting cut shows the Ingersoll drill used for driving sheet piling in trench work.

WHEELBARROWS, CONCRETE MIXERS AND PNEUMATIC PLANTS.—The Cockburn Barrow & Machine Co., Jersey City, N. J. 6 × 9 ins.; pp. 24.

The first part of this catalogue is devoted to description and price-lists of the Cockburn tubular-frame wheelbarrow. Then follow illustrations and price-lists of self-dumping hoisting tubs, dump cars, concrete mixers of the continuous type, cubical mixers, air locks, concrete buckets for subaqueous work, tunnel shields, grout mixers and ejectors. Concrete bottom dump buckets are of two patterns, one being the O'Rourke patent. A grout mixer and ejector is of the type used in the Hudson River tunnel, for mixing and forcing grout by pneumatic pressure into the sand and silt surrounding the tunnel lining. The tunnel shields also appear to be of the same general design used in the Hudson River tunnel. The Morrison sand pump, the Ames patent air lock governor and steam hammer for blacksmith work, cable grips, etc., form other features of this interesting catalogue.

TANKAGE SCALE TABLE.—Hammond Iron Works, Warren, Pa.; Herman Nieter, Sales Agent, 180 Broadway, New York City. Cardboard slip in celluloid envelope; 2¾ × 5½ ins.

A table of dimensions for tanks is printed on two sides of a cardboard slip. The column headings are placed on an envelope and below the heads narrow slits, crosswise of the envelope, expose one line in the table, one each side of the card. The slip or card is withdrawn until the requisite tank capacity is found in column one. The diameter, height in feet, number of rings or courses, thickness of the successive rings from the bottom upwards, thickness of bottom, size of bottom and to[illegible] le irons, and thickness of sheets for light nailed roof [illegible] for tight roof are given. Capacities are given in bar[illegible] f 42 gallons and thicknesses of steel in terms of Birm[illegible] am Wire Gage. Heights are limited to six rings or 30 f[illegible] e larger capacities being obtained by increasing the d[illegible] ters. A 50,000-barrel tank (2,100,000 gallons) would b[illegible] × 30 ft.

AIR LIFT PUMPS.—The W. G. Leale Co., [illegible] 21 Mission St., San Francisco, Cal. 4 × 9 ins.; [illegible]

This catalogue illustrates and sets forth [illegible] erits of the Starrett system of pumping by compress[illegible] which was described in a recent issue of this pap[illegible] ne novelty and effectiveness of the Starrett pump, [illegible] lly for deep well and mine pumping, give unusua[illegible] rest to this catalogue.

BOMBAS DE VAPOR.—A. S. Cameron [illegible] Pump Works, Foot of East 23d St., New York [illegible] 3½ × 6 ins.; pp. 52.

This is a small catalogue printed in Spani[illegible] ribing the pumps made by the well-known firm of [illegible] Cameron, and with the dimensions of the pum[illegible] ven in metric units. It is convenient, therefore, for [illegible] use of engineers in Spanish-American countries.

GAS AND GASOLINE ENGINES.—Columbus Machine Co., Columbus, O. 7 × 9 ins.; pp. 28.

Stationary and portable gas and gasoline engines of many types and sizes are manufactured by this company. An interesting photograph shows the Columbus gasoline traction engine. Estimates of cost of pumping with steam engines, gasoline engines and gas engines are given.

SAND FOR FILTRATION AND BLAST PURPOSES.—Red Wing Filter Sand Co. Paper; 3 × 6 ins.; pp. 25. Also samples of sand.

A report on the quality and utility of this sand by Dr. Geo. A. Soper, Assoc. M. Am. Soc. C. E., is followed by testimonials from users of the sand and a list of users, both for filters and for sand blast. The sand is shipped in 115-lb. bags and weighs 110 lbs. per cu. ft., or 135 lbs. per bushel.

PNEUMATIC CLAM-SHELL BUCKETS.—William H. Arnold & Co., 165 Prospect Park West, Brooklyn. 6 × 9 ins.; pp. 16.

This catalogue contains a reprint from Engineering News of May 2, 1901, describing in detail the construction of this bucket, and showing it used for dredging purposes. In addition, the uses to which the bucket can be put, and its advantages over other types of clam-shell buckets, are clearly set forth.

HOUSE TANK PUMPS.—Prindle Pump & Engineering Co., 95 Liberty St., New York City. Paper; 6 × 9 ins.; pp. 16; illustrated.

Centrifugal pumps, direct-connected to electric motors working with direct currents or with alternating single, two or three-phase alternating currents are here shown. Automatic control is provided by a tank switch operated by a ball switch. Prices are given for pumps and motors ranging in capacity from 100 to 2,000 gallons per hour.

AIR COMPRESSORS.—Sullivan Machinery Co., Chicago, Ill. 6 × 9 ins.; pp. 128.

The Sullivan straight-line air compressor and the Sullivan-Corliss cross-compound, two-stage air compressor, are fully illustrated; tables are given of sizes, weights, capacities, etc., and their special features set forth. Tables are given showing the efficiency of air compressors, the loss of pressure due to friction in pipe lines, and other data useful to the engineer.

SITUATIONS OPEN

WANTED.—Draftsman, capable of doing good rapid work, including plain lettering on tracings for reproduction. Permanent position at $80 per month. Address, giving education, experience, etc., "W. A. 4," Engineering News, New York. 4-1t

WATER-WORKS.

Schoharie, N. Y.

Sealed proposals will be received until 12 o'clock noon, Feb. 22, 1905, for the construction of a system of water-works for said village. Bids received for whole work only. Right to reject bids reserved. For specifications and further particulars address

4-2t H. F. KINGSLEY, Village Clerk.

U. S. ENGINEER OFFICE, Newport, R. I., Jan. 23, 1905.—Sealed proposals for furnishing and delivering Portland cement, broken stone, screenings and sand at Boston Neck and Fort Adams, R. I., will be received here until 11 A. M., Feb. 23, 1905, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs. 4-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 17, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 28th day of February, 1905, and then opened, for the construction complete of the U. S. Post Office at Louisiana, Missouri, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Postmaster at Louisiana, Missouri, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 3-2t

For other Proposal Advertisements see pages 35, 36, 37, 38 of Advertisements